

CSCEC

Environmental Social Governance

— 2023 —
Sustainability Report
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2023 Environmental, Social and Governance and Sustainability Report



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Expanding a Happy Living Environment

Environmental

Social

Governance

————— **2023** —————

Environmental, Social and Governance
and Sustainability Report



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CONTENTS



03 About the Report	06 ESG Governance
04 Statement of the Board of Directors	06 ESG Governance Structure
05 About CSCEC	07 Stakeholder Management
05 ESG Recognitions in 2023	09 Materiality Matrix
	11 Response to UN SDGs

40 Safe Production	61 Employee Development
40 Safety Management	61 Employee Management
46 Safety Supervision and Inspection	62 Employees' Rights and Interests
47 Safety Culture and Training	63 Personnel Training
49 Product Responsibility	66 Common Progress in the Community
49 Quality Management	66 Rural Revitalization
50 Innovation Empowerment	67 Community Engagement
55 IPR Protection	68 Community Investment
55 Customer Service	
58 Supply Chain Management	
58 Supplier Management System	
60 Sustainable Supply Chain	



16 Feature	26 Emission Control
Being a Pioneer in Responding to Climate Change	26 Wastewater Management
	26 Waste Gas Management
	27 Waste Management
19 Environmental Management	29 Green Development
19 Environmental Management System	29 Innovation in Green Technologies
20 Environmental Risk Management	31 R&D of Green and Low-Carbon Products
21 Green Management	33 Green Building Certification
24 Ecological Conservation	36 Utilization of Clean Energy
	37 Green Office



72 Corporate Governance	74 Compliance and Risk Management
72 Validity of the Board of Directors	
74 Independence of the Board of Directors	76 Business Ethics and Anti-corruption
74 Diversity on the Board of Directors	
78 Appendices	
78 ESG Key Performance	
81 Global Reporting Initiative GRI Content Index	
85 List of Laws, Regulations, and Internal Management Systems	
88 Feedback	



About the Report



Objective of the Report:

This is the first Environmental, Social and Governance (ESG) report released by China State Construction Engineering Corporation Limited. It aims to disclose the strategy, management systems, management policies, actions, and key performance of the Company's ESG efforts and to respond to key ESG topics of concern to stakeholders.

Alignment:

This report is guided by the United Nations Sustainable Development Goals (UN SDGs), the Global Reporting Initiative Standards (GRI Standards) published by the Global Sustainability Standards Board (GSSB), the recommendations of the Task Force on Climate-Related Financial Disclosures (TCFD), and Guidelines No. 1 of Shanghai Stock Exchange on Self-regulation for Listed Companies – Standard Operation, as well as the disclosure principles of material, quantitative, balance, and consistency.

Boundaries:

The report focuses on China State Construction Engineering Corporation Limited and its branches and subsidiaries.

Reporting Period:

This is an annual report for the period from January 1, 2023 to December 31, 2023 (the "Reporting Period"). Some of the content looks backward or forward to make the report more comparable and forward-looking.

Source of Data:

The information and data in the report are from the Company's official documents, statistical reports, publicly available information, and relevant internal data collection systems, and have been summarized and reviewed by the Company. The currencies and amounts in the report are denominated by Renminbi unless otherwise stated.

References:

For convenience of presentation and reading, China State Construction Engineering Corporation Limited will be referred to as "CSCEC," "the Company," or "we/us" in the report. Other commonly used references include: China State Construction Engineering Corporation (China State Construction/the Group), China Construction First Group Corporation Limited to China Construction Eighth Engineering Division Corp. Ltd. (China Construction First Group Corporation to Eighth Engineering Division), China Overseas Holdings Limited (COHL), China Overseas Land & Investment Ltd. (China Overseas Land & Investment), China State Construction International Holdings Limited (CSCI), and more.

Access:

This report is published in print and online and is available at CSCEC's website, www.cscec.com. The report is made in both Chinese and English. In the event of an inconsistency between the two language versions, the Chinese version shall prevail.

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Statement of the Board of Directors

The Board of Directors of CSCEC recognizes the significance of environmental, social and corporate governance (ESG) to the Company's robust operations in the long term. Therefore, it is committed to strict adherence to the provisions of the sustainability reporting guidelines of the listed exchanges, while continuously enhancing the Company's ESG governance system and management mechanism.

The Board of Directors acknowledges the major impact that ESG governance risks may pose on the Company. In light of the external socio-economic landscape and the Company's development strategy, it regularly conducts comprehensive ESG assessments. The assessment findings are treated as ESG priorities for our management and enhancements, incorporated into the Company's overall strategy for consideration. It also oversees the progress of management and enhancements as well as performance.

The Board of Directors and the Strategy and Investment Committee develop corporate strategies, study and decide on major sustainability matters, and ensure the integration of the ESG philosophy with corporate strategies. The objective is to achieve more independent, efficient, and professional ESG management on the Board and to seek new models for integrating ESG with the Company's business.

In the Reporting Period, CSCEC prioritized its stakeholders' expectations and demands. Through comprehensive and systematic stakeholder surveys, internal interviews, and special meetings, the Company identified 18 strategic topics, assessed and prioritized them, and finally drew a materiality matrix (for details, please refer to the "ESG Governance" section of this report).

CSCEC remains committed to enhancing its climate risk response resilience. Its efforts include the establishment of a Leadership Group on Carbon Peaking and Carbon Neutrality headed by the Chairman of the Board of Directors dedicated to facilitating the implementation of tasks for carbon peaking and carbon neutrality ("dual carbon"). In the future, in addition to seeking to reduce carbon emissions from its operations, the Company will monitor the progress of the external industrial chain in reducing carbon emissions and contribute to these efforts by leveraging its industry influence and driving green and low-carbon practices in the supply chain and the value chain.

This report discloses in detail the progress and efficacy of CSCEC's ESG efforts in 2023 and has been deliberated and approved at the 56th meeting of the third session of the Board of Directors. This report is truthful, accurate, and complete and does not contain any false records, misleading statements, or material omissions.

About CSCEC

Fortune Global 500 ranking 2023 / No. 13

CSCEC is controlled by China State Construction, which was officially established in 1982 and is a key state-owned enterprise (SOE). CSCEC is the most integrated and largest investment and development conglomerates worldwide bestowed with the longest history of specialized development, market-oriented operation. In 2009, China State Construction Engineering Corporation Limited (stock abbreviation: CSCEC; stock code: 601668.SH) was officially listed on the stock market, raising a total of RMB 50.16 billion. In 2023, CSCEC ranked 13th among *Fortune* Global 500 and 4th among *Fortune* China 500, continued to top Engineering News Record's (ENR) Top 250 Global Contractors list for the eighth year in a row, and received the highest credit rating in the global construction industry.

CSCEC has been doing business in more than 100 countries and regions around the world, covering investment and development (real estate, construction financing and operation), construction engineering (housing and infrastructure) as well as survey and design and new business (green construction, energy conservation, and e-commerce), forming a "five-in-one" development pattern of design, housing, infrastructure, real estate, and overseas.

CSCEC thoroughly implements the new development philosophy and adheres to the priority of high-quality development. Committed to the strategic goal of "one creation and five aspects of strength¹," it thoroughly implements the strategic path of "1+6+6²" and sticks to the development path driven by innovation and featured by green, low carbon, and win-win collaboration. By enhancing development momentum conversion and accelerating business structure adjustment, it is striving to build a world-class enterprise.

- ¹ "One creation and five aspects of strength" refer to "being driven by the creation of a globally competitive and world-class enterprise and committed to becoming a world-class enterprise group with strengths in value creation, innovation leadership, brand influence, international competitiveness, and cultural soft power."
- ² "One elevation, six competitive advantages, and six commitments." "One elevation" refers to raising political stance. "Six competitive advantages" refer to advantages in housing construction as the primary business, infrastructure construction as a pillar business, real estate development, survey and design, foreign market development, and business integration. "Six commitments" refer to modern corporate governance, capital and asset operation, scientific and technological innovation, organizational structure reinforcement, talent support, low-carbon and digital transformation.

ESG Recognitions in 2023

Award	Issuer
"Excellence" in the rating of the Boards of Directors of central enterprises	State-owned Assets Supervision and Administration Commission of the State Council (SASAC)
Grade A in the annual appraisal of the State-owned Assets Supervision and Administration Commission of the State Council (SASAC) for the 18th session	SASAC
Included in the Central Enterprises ESG Pioneer 50 Index	SASAC
Included in SASAC's <i>Blue Paper on Overseas Social Responsibility of Central Enterprises (2022)</i>	SASAC
China's ESG Pioneer 100 Listed Companies	China Media Group in collaboration with the SASAC, All-China Federation of Industry and Commerce, Institute of Economics Chinese Academy of Social Sciences, and China Enterprise Reform and Development Society
Included in the ESG Best Practice Cases of the China Association for Public Companies 2022 and 2023	China Association for Public Companies
A case in the <i>Annual ESG Excellence in Practice Report</i>	China Enterprise Reform and Development Society and China Social Responsibility 100 Forum
Included in Forbes China ESG 50 2022	Forbes
Ranked among top 10 in the Sustainable Development Value "Social Value 99" ranking of the China Alliance of Social Value Investment for years	China Alliance of Social Value Investment
Included in the ESG Top 100 Chinese Listed Companies of the <i>Securities Times</i>	<i>Securities Times</i>
ESG Pioneer Cases 2023	<i>Securities Daily</i>
Best ESG Award	IR Roadshow China
4th Best ESG Practice Award of the <i>New Fortune</i>	<i>New Fortune</i>

ESG Governance

At CSCEC, we align our ESG governance with our strategic goal of “one creation and five aspects of strength” and the needs of our business development. Our efforts include building a science-based and complete ESG governance system, reinforcing the ESG supervision and governance at the Board of Directors level, and improving our ESG management system and action strategies. In 2023, we added ESG elements to the strategic path of “1+6+6.” We have pledged to create high-quality products and services and deeply integrate into the economic and social development of our operating sites with ESG as a focus in the implementation of our corporate strategies. We will strive to establish a ESG construction mechanism that coordinates all levels to achieve a harmonious balance between economic, social, and ecological efficiency.

ESG Governance Structure

In the Reporting Period, we developed the *CSCEC ESG Work Plan*, which features work principles, governance structure, work objectives, priorities, and safeguards. With the *Work Plan*, we further improve our ESG governance structure and delineate the assignments of each responsible department, systematically facilitating the implementation and progress of ESG work. The Company’s Board of Directors and its Strategy and Investment Committee formulate corporate strategies, study and decide on major sustainability matters, and progress ESG practices at a high standard. In the Reporting Period, they convened six meetings on ESG-related resolutions and deliberated eight ESG issues.

CSCEC’s ESG Governance Structure

Governance	Board of Directors	
	Strategy and Investment Committee	Director: Chairman Committee Members: Directors of the Board
Management	Brand Building and Social Responsibility Leadership Group	Group Leader: Chairman Deputy Leader: President and leading official for ESG Members: Disciplinary Inspection and Supervision Group and departmental heads at the headquarters
Implementation	ESG Working Group	Group Leader: Leading official for ESG Members: Disciplinary Inspection and Supervision Group, departmental heads at the headquarters, and ESG directors of all subsidiaries

CSCEC’s ESG Objectives

	Term	Objective Details
Short-term objectives	→ 2023-2024	• Establish a rudimentary ESG governance, management, and control system, conduct a comprehensive diagnosis and issue a diagnosis report of our ESG status; Prepare and disclose the first ESG report, achieving the objective of ESG report disclosure by central enterprise-controlled listed companies.
Medium-term objectives	→ 2025-2027	• Further improve our ESG governance, management, and control system and upgrade our ESG report release mechanism. Moreover, we will leverage ESG to bolster management enhancement and elevate our ESG rating to A, setting an example for the industry.
Long-term objectives	→ 2028-2032	• Continue to improve our ESG governance, management, and control system, accomplish the in-depth integration of ESG work with the development strategy, governance structure, and operation management, promote an ESG ecosystem in the industry, and engage in the setting of international ESG rules and standards, thus boosting the development of a world-class enterprise.

At CSCEC, we have set up short-, medium-, and long-term ESG objectives, aiming to deeply integrate ESG into the Company’s internal management and seek a pathway to sustainable development with CSCEC’s characteristics. We have incorporated ESG-related indicators such as safety, environmental protection, and corporate management into the remuneration assessment of the management to incentivize them to perform their duties. Through these initiatives, we ensure tangible ESG progress and create more value for the industry and society.

We regularly arrange ESG training for directors to continuously enhance the Board of Directors’ ESG awareness. In 2022, all directors were enrolled in two ESG training sessions hosted by the Shanghai Stock Exchange. The directors gained insights into domestic and international ESG governance and practices from online training on “Global ESG Investment Trends and Exchange Practices,” “ESG under Carbon Neutrality,” “Opportunities and Challenges in ESG Investments,” “ESG Practices of Listed Companies,” and “Dialogue with International Investors: How ESG Empowers Listed Companies.”

Stakeholder Management

Recognizing the vital significance of stakeholders in our business operations, we maintain prompt and effective communication and amicable relationships with our stakeholders, including shareholders, the government and regulators, customers, suppliers and contractors, community representatives, and partners. Together, we support the construction industry in achieving high-quality development in environmental and social areas.

CSCEC’s Stakeholder Communication Mechanism

Stakeholder	Expectations for CSCEC	CSCEC’s Communication and Response
Shareholders /investors	<ul style="list-style-type: none"> Robust operations Superior financial and market performance Dividend returns and growth Sound disclosure 	<ul style="list-style-type: none"> Enhancing corporate governance Holding Shareholders’ General Meetings and earnings presentations Periodic reports and corporate announcements Roadshows and reverse roadshows Investors’ and analysts’ meetings Continuous growth in financial performance Steady cash dividend returns
Government /regulators	<ul style="list-style-type: none"> Legal compliance Responding to national policies Driving economic growth Contributing to local development 	<ul style="list-style-type: none"> Operation in compliance with laws and regulations Work reporting and business communication Engagement in government-led engineering projects Project site visits
Employees	<ul style="list-style-type: none"> Legitimate rights and interests of employees Growth space and promotion opportunities Compensation and benefits Health and safety Equal communication 	<ul style="list-style-type: none"> Protecting the legitimate rights and interests of employees Enhancing employee training Maintaining unblocked career development channels Competitive compensation system Protecting employees’ occupational health and safety Improving the employee communication mechanism Employee satisfaction surveys Trade union events and employee symposiums

CSCEC's Stakeholder Communication Mechanism

Stakeholder	Expectations for CSCEC	CSCEC's Communication and Response
Customers (owners)	<ul style="list-style-type: none"> Ensuring product quality Responding to customer needs Customer relationship management services 	<ul style="list-style-type: none"> Enhancing safety and quality inspections Improving service quality Customer satisfaction surveys Customer visits and communication meetings Bidding and business negotiations Business correspondences Contract performance
Suppliers	<ul style="list-style-type: none"> Fair and just procurement Sustainable supply chain Stable partnerships 	<ul style="list-style-type: none"> Sunshine procurement (transparent procurement), green procurement, and enhancing qualification audit Supplier behavior management Bidding and business negotiations Business correspondences Contract performance and fulfilment as scheduled
Contractors	<ul style="list-style-type: none"> Protection of legitimate rights and interests Health and safety Stable partnerships 	<ul style="list-style-type: none"> Protecting the legitimate rights and interests of contractors' employees Protecting the occupational health and safety of contractors' employees Behavior management Bidding and business negotiations Business correspondences Contract performance
Communities	<ul style="list-style-type: none"> Concern for people's livelihood Supporting public welfare Collaborative programs 	<ul style="list-style-type: none"> Regularly communicating with community representatives Actively participating in social welfare and charitable donations Encouraging employees to volunteer Participating in community programs
Partners	<ul style="list-style-type: none"> Legal compliance Compliance with business ethics Superior financial and market performance Long-term partnerships 	<ul style="list-style-type: none"> Legal contract performance Project-based collaboration and business negotiations Regular business communication visits and high-level visits Executing strategic cooperation agreements Multi-channel cooperation and research Leading the industry
Press	<ul style="list-style-type: none"> Sound disclosure Enhancing collaboration and communication 	<ul style="list-style-type: none"> Corporate announcements Press events Press releases
Academic institutions	<ul style="list-style-type: none"> Collaboration and communication Industry-university-research programs Research assessments 	<ul style="list-style-type: none"> Recruitment promotion Employee training Academic exchanges Collaborative R&D Key technology breakthroughs



Case

CSCEC Launches an IR WeChat Official Account

In 2022, we revised our IR management regulations and optimized and adjusted our institutional framework. As part of these efforts, we incorporated "Environmental, Social, and Governance (ESG) Information" into our investor communications. We also hosted special promotion events for specific categories of international investors for the first time, communicating with Singaporean investors on topics related to ESG and the domestic market landscape. Such events allowed more international investors and partners to understand and monitor CSCEC's ESG performance. In 2022 and 2023, we hosted six earnings presentations for global investors. These presentations featured a format combining on-site participation, conference calls, announcements calling for questions, live text updates, and audio/video broadcasts, which attracted more than 340,000 online views.

On May 15, 2022, we officially launched the "CSCEC IR" WeChat official account (hereinafter referred to as the "WeChat official account") to facilitate the Company's ESG disclosure to the capital market. On the WeChat official account, investors can access the Company's latest announcements, Board meeting information, investor communications, ESG management, investor protection, and other latest capital market news, thereby keeping abreast of the Company's value dynamics.

In 2022 and 2023, our IR WeChat official account made solid and orderly progress, releasing posts on business performance promotion, latest research reports, hot topics, ESG management, and investor protection. It has served as a quality information access channel for various stakeholders and won several recognitions from the domestic capital market. As of the end of the Reporting Period, the WeChat official account had made 529 posts and received a total of 150,000 views. It has operated well with a steady readership and stable growth in views.

Materiality Matrix

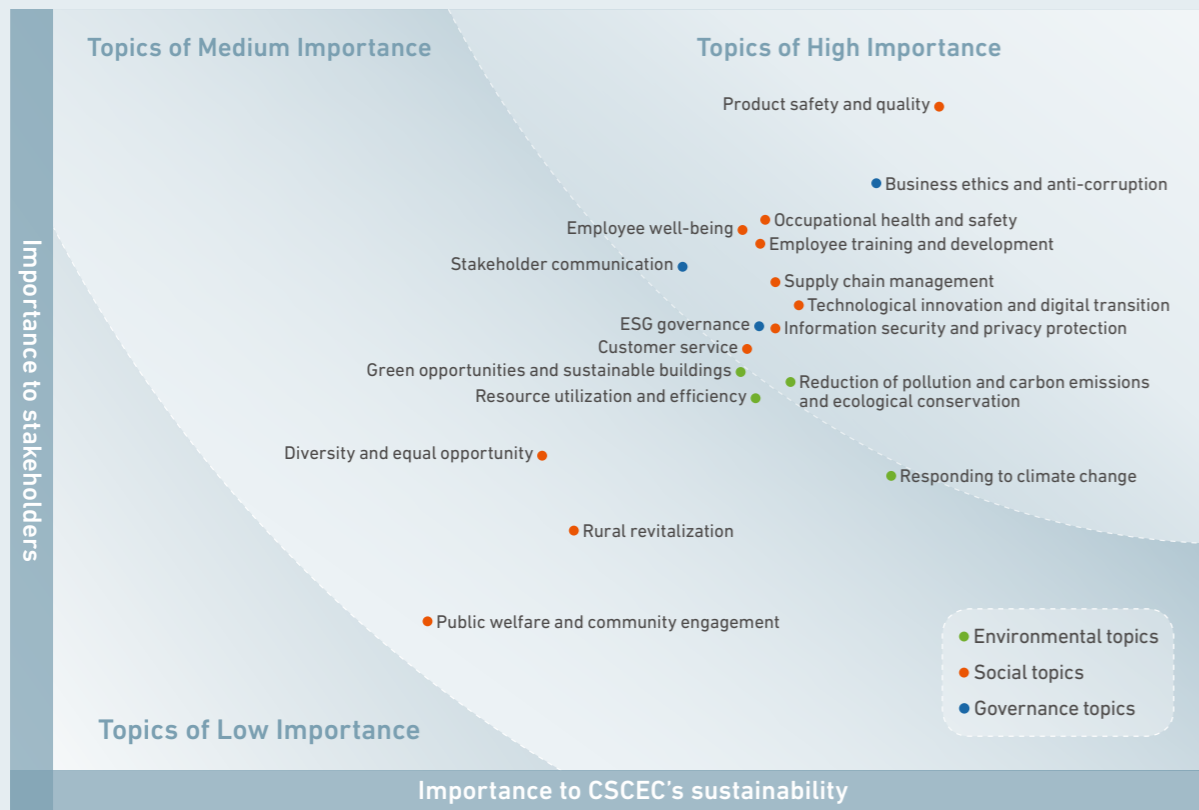
At CSCEC, we are committed to soliciting opinions and suggestions from our stakeholders and enhancing our ESG management in every aspect. In the two years during the Reporting Period, we distributed questionnaires to the management, employees, investors, suppliers, partners, and other internal and external stakeholders, and collected 1,555 valid responses. This feedback served as the foundation for the development of CSCEC's ESG materiality matrix for 2023, responding to stakeholders' concerns and expectations for our ESG management in a targeted manner.



Workflow for Identifying and Evaluating Material Topics



CSCEC's ESG Materiality Matrix for 2023



Response to UNSDGs

At CSCEC, we have actively responded to the United Nations Sustainable Development Goals (UN SDGs) and satisfied the requirements of SDGs in light of our business characteristics. In our ESG efforts, we continue to practice compliance, innovation, and foresight.

Chapter	Material Topics	Corresponding SDG	Our Action	Key Performance in 2023
Promoting Sustainability with Environmental Protection Environmental	<ul style="list-style-type: none"> Responding to climate change Reduction of pollution and carbon emissions and ecological conservation Resource utilization and efficiency Green opportunities and sustainable buildings 		<p>We continuously optimize our wastewater discharge measures and install wastewater treatment equipment and facilities in compliance with mandates to ensure that our wastewater discharge adheres to established standards. We employ technical methods to enhance wastewater disposal and reuse for higher water efficiency.</p>	<ul style="list-style-type: none"> We continuously optimize our wastewater discharge measures and employ technical methods to enhance wastewater disposal and reuse. We continue our efforts in water conservancy, environmental protection, and pumped storage. Moreover, we guide our subsidiaries to launch innovative models and championing green development on all fronts. Throughout the Reporting Period, no incident of adverse impacts on biodiversity caused by sewage discharge occurred to the Company.
			<p>We vigorously promote the adoption of PV power generation, air-source heat pumps, ground-source heat pumps, and other clean energy technologies, providing new options for green and clean energy for the Company's sustainable development.</p>	<ul style="list-style-type: none"> In 2022, 58% of the projects newly acquired by China Overseas Land & Investment, a subsidiary of CSCEC, used renewable energy sources such as solar and air energy, wherever feasible. In 2023, we actively launched projects in clean energy, water, and environmental protection to promote green development on all fronts. From 2021 to 2023, our R&D investment in clean technology R&D was RMB 23.664 billion, RMB 30.060 billion, and RMB 32.269 billion, respectively.
			<p>The promotion of green building certification and the R&D of green building technology have always been our top priorities. We are dedicated to promoting large-scale development of green buildings, expanding green building investments and construction, and increasing the proportion of ultra-low-energy buildings in development. At the same time, we actively launch urban renewal and renovation projects to promote the re-optimization of land resources.</p>	<ul style="list-style-type: none"> As of the end of the Reporting Period, we had completed over 2,000 green building-certified projects, of which 215 were three-star green buildings. In 2023, we initiated ten investment, construction, or operation projects as near-zero energy/zero-carbon building demonstration projects. As of the end of the Reporting Period, we had more than 80 zero-energy building projects under construction and more than 50 projects completed. In 2023, we undertook several major livelihood projects in Beijing, Shanghai, and Guangzhou. Particularly in Guangzhou, we invested in three representative urban renewal projects in succession, with a total investment of more than RMB 65 billion.
			<p>We, as an industry leader, are advancing towards the "dual carbon" goals. In this journey, we continue our efforts in strengthening our resilience to climate risks and rationalizing our approach to greenhouse gas (GHG) emission reduction. In addition to reducing our own carbon emissions, we contribute to the carbon emission reduction efforts across the external industrial chain. Through these measures, we demonstrate our confidence in low-carbon development in every aspect.</p>	<ul style="list-style-type: none"> We have established a corporate-level Leadership Group on Carbon Peaking and Carbon Neutrality led by the Chairman, with a subordinate Working Group on Carbon Peaking and Carbon Neutrality, responsible for driving progress towards the "dual carbon" goals and relevant tasks in every aspect. We have formulated and released CSCEC's <i>Action Plan for Carbon Dioxide Peaking</i>. By setting forth nine key tasks, we have defined CSCEC's objectives and strategic paths for carbon peaking and carbon neutrality. In 2023, we officially launched a "ten hundred million" project. We recorded 117 advanced scientific and technological achievements for carbon peaking and carbon neutrality and launched 50 demonstration projects for green and low-carbon technologies. We have participated in the preparation of carbon emission standards in the construction sector, including the <i>Carbon Emission Calculation and Accounting Standard for the Urban-Rural Development Sector</i>, a national standard, and the <i>Carbon Emission Calculation Standard for the Construction Stage of Industrialized Buildings</i>, a standard of the China Association of Building Energy Efficiency. In 2022, we completed a carbon inventory and preliminarily identified differentiated emission reduction paths for different types of projects.

Chapter	Material Topics	Corresponding SDG	Our Action	Key Performance in 2023	
Promoting Harmony with Responsibility Social			We actively participate in major ecological restoration projects such as the Yangtze River Protection and the Yellow River Basin Protection and join forces in creating and sharing ecological returns in various segments of the value chain.	<ul style="list-style-type: none"> In the Hubei Zhijiang Jinhu National Wetland Park Ecological Restoration project, 668 ha of wetlands have been conserved and restored. Moreover, 510,016 m³ of water systems have been dredged, and 152,607 m² of aquatic plants have been cultivated. 	
			We commit to avoiding project construction and greenfield development in national nature reserves to conserve the local ecology and rare species of wildlife.	<ul style="list-style-type: none"> In 2022, 99% of the wood purchased in Hong Kong by CSCI, our subsidiary, was certified by the Forest Stewardship Council (FSC). The rate rose to 99.8% in 2023. 	
	<ul style="list-style-type: none"> Product safety and quality Occupational health and safety Technological innovation and digital transition 		We are driven by our commitment to create a positive impact for the community. We have established and maintained open, transparent, and long-lasting communication channels, contributing to rural revitalization and collaborating extensively with community stakeholders to promote prosperity and sustainable development in the community.	<ul style="list-style-type: none"> In 2023, we provided non-reimbursable assistance to over 30 regions, including those under targeted assistance (Kangle, Kang, and Zhuoni Counties in Gansu Province) and those under paired assistance (Changting County in Fujian Province), benefiting a total of 317,175 people with a total investment of RMB 158 million. In 2023, we released a global volunteer service map. More than 1,800 volunteer organizations and 120,000 CSCEC young volunteers conducted more than 10,000 "Constructing the Future" volunteering activities, totaling more than 110,000 hours, focusing on helping the elderly and people with disabilities, flood control and disaster relief, and overseas public welfare. 	
			We take "zero liability accidents" as the ultimate goal of safe production and insist on "starting from zero and striving for zero." We prevent and resolve major safety risks at the source, and we have established a sound occupational health and safety management system and kept it running effectively. We persist in conducting safety supervision and inspection and promoting a safety culture to ensure high-quality development with a high level of safety.	<ul style="list-style-type: none"> In 2022 and 2023, no major or above safe production accidents occurred to the Company, and the number of work-related fatalities of employees was zero for three consecutive years. We provide all basic social insurance for our employees and encourage member enterprises to provide supplementary medical insurance and enterprise annuity, thereby enhancing benefits and security. 	
	<ul style="list-style-type: none"> Information security and privacy protection Customer service Supply chain management 		We have played an active part in the construction of the Belt and Road Initiative (BRI). We have launched campaigns such as the Constructing Happiness Library and the UP WE BUILD program and published books in Chinese and English, including the <i>Constructing the Silk Road and Buildings Talk</i> . These efforts have strengthened cultural exchanges with people in BRI countries and local education.	<ul style="list-style-type: none"> We have implemented the UP WE BUILD program in ten countries, including the United Arab Emirates and Sri Lanka, for more than 20,000 trainees and 6,000 local young people, boosting the local construction industry and economy. 	
			We uphold the principles of fairness and impartiality in recruitment. During recruitment, training, and promotion, we never treat employees differently based on region, age, cultural background, or other factors.	<ul style="list-style-type: none"> Throughout the year, no incidents of employment discrimination or illegal labor were found at the Company. We hosted the Symposium on the Action of Women's Power in Scientific and Technological Innovation at Central Enterprises to promote the all-round development of female employees in their careers. 	
					<ul style="list-style-type: none"> We flexibly leveraging equity incentives for listed companies, dividend incentives for tech companies, and other methods to stimulate the enthusiasm and initiative of our key teams. Since the launch of restricted stock incentives in 2013, we have granted over 8,000 incentive offers.

Chapter	Material Topics	Corresponding SDG	Our Action	Key Performance in 2023
Promoting Harmony with Responsibility Social			We continue to improve our innovation management system. By developing scientific and technological innovation platforms, we continuously improve our scientific and technological R&D and the transformation of achievements. We have established CSCEC scientific and technological innovation platforms and constructed the "2+6" system of scientific and technological innovation platforms.	<ul style="list-style-type: none"> In 2023, we invested RMB 46.074 billion in R&D. 26 of our subsidiaries were recognized as Specialized and Sophisticated Enterprises, including two at the national level. We were also recognized by the SASAC as an Outstanding Contributor to Scientific and Technological Innovation. During the Reporting Period, we have preliminarily completed the system of scientific and technological innovation platforms of CSCEC. As of the end of the Reporting Period, we held 68,519 valid patents, including 6,177 invention patents and 61,865 utility model patents.
			Upholding the principles of extensive consultation, joint contribution, and shared benefits, we adhere to the goals of high standards, sustainability, and benefiting the people. We continue to make community investments in charity, education, culture, and environmental protection, employee protection, health, and sports, actively fulfilling our social responsibility.	<ul style="list-style-type: none"> Our subsidiary China Construction Science and Industry constructed Butuka Academy, a China-Papua New Guinea (PNG) friendship School, in PNG. The project has addressed the educational issue of more than 3,000 primary and secondary school students and served as a bridge of cultural exchanges between China and PNG.
	<ul style="list-style-type: none"> Equal opportunity Employee well-being Employee training and development 社区公益与社区参与 Rural Revitalization 		Guided by the ISO 9001 quality management system, we are committed to enhancing our organizational system, policy framework, and supervision system for quality management. We have integrated total quality risk management and internal quality control requirements into our business management system and processes. Moreover, specific quality objectives are assigned to each level, ensuring product quality in every aspect.	<ul style="list-style-type: none"> As of the end of the Reporting Period, 189 of our subsidiaries had obtained the third-party certification of the ISO 9001 quality management system. In 2022 and 2023, 100% of personnel involved in projects under construction signed the Letter of Responsibility on Quality Management Objectives. Throughout the Reporting Period, all completed projects achieved a 100% passing rate, with no quality accidents reported above the general level. In 2022 and 2023, we achieved a customer quality satisfaction rate of 95.94% and 95.86%, respectively, with a rectification completion rate of 100%.
			We fulfill our social responsibility in collaboration with our partners, establish a sustainable and responsible supply chain characterized by honesty, compliance, openness, transparency, green, and health, and accelerate the construction of a supply chain ecosystem characterized by mutual trust and win-win cooperation.	<ul style="list-style-type: none"> We conduct various evaluations and assessments of all of our partner suppliers. We supervise suppliers establish a sound safe production management system and incentivize them to contribute to safe production insurance in accordance with the law. We convene the Company's Project Management Conference and Project Managers' Conference, continuously improve our lean construction, and comprehensively promote cost reduction and efficiency enhancement for project. We effectively integrate services for society into the project implementation to create more better-quality construction products and environment-friendly construction sites.
Promoting Integrity with Robustness Governance			We have established a corporate governance structure characterized by a clear division of powers and responsibilities, complemented by a sound anti-corruption and risk management system, striving for the stable and healthy development of the Company in the long run.	<ul style="list-style-type: none"> Independent directors account for more than 50% on the Board and have diversified expertise and professional experience. We have established an ESG Working Group, encompassing 17 departments at the headquarters and our subsidiaries. We hosted six earnings presentations for global investors, attracting more than 340,000 online views. In 2022, we hosted 20 integrity training sessions and conducted over 100,000 regulatory talks on integrity for two consecutive years.
		<ul style="list-style-type: none"> ESG governance Stakeholder communication Business ethics and anti-corruption 		

Environmental

Promoting Sustainability with Environmental Protection



At CSCEC, we always integrate environmental protection in our pursuit of high-quality development and steadfastly follow a green and low-carbon development trajectory that places ecology at the forefront. We conscientiously fulfill our primary responsibility for environmental protection, implement the requirements for synergizing the reduction of pollution and carbon emissions, and regulate corporate management behaviors for the environment, energy conservation, and emission reduction. Through such a green transition, we champion sustainable development and perform our duties to facilitate the harmony between humanity and nature in our pursuit of high-quality development.



Feature

Being a Pioneer in Responding to Climate Change

We, as an industry leader, are advancing towards the “dual carbon” goals. In this journey, we continue our efforts in strengthening our resilience to climate risks and rationalizing our approach to GHG emission reduction. In addition to reducing our own carbon emissions, we contribute to the carbon emission reduction efforts across the external industrial chain. Through these measures, we demonstrate our confidence in low-carbon development in every aspect. We focus on the strategic goal of “one creation and five aspects of strength” and expedite the advancement of the “1+6+6” strategic initiatives. Oriented by green and low-carbon development, we ensure that our efforts towards carbon peaking are strong, organized, and effective. By embedding green and low-carbon concepts into our corporate development strategy, we are leading the construction industry’s green transition and upgrading.

We have established a corporate-level Leadership Group on Carbon Peaking and Carbon Neutrality led by the Chairman, with a subordinate Working Group on Carbon Peaking and Carbon Neutrality, responsible for driving progress towards the “dual carbon” goals and relevant tasks in every aspect. Our second-tier subsidiaries have appointed leading officials, responsible departments, and specialized personnel for “dual carbon” to effectively guide the “dual carbon” indicators and targets at all subsidiaries to be incorporated into the performance appraisal system for subsidiaries. These metrics are directly linked to the performance-based compensation of individuals in charge.

We have formulated and released CSCEC’s *Action Plan for Carbon Dioxide Peaking*. By setting forth nine key tasks, we have defined CSCEC’s objectives and strategic paths for carbon peaking and carbon neutrality. Building upon these tasks, we are committed to progressing our initiatives against climate change across all fronts. In addition, we have launched a “ten hundred million” project³ in light of our current business status and future plans. In this project, we have broken down the systematic cause of “dual carbon” into a quantifiable and evaluable task list, progressed the implementation of CSCEC’s *Action Plan for Carbon Dioxide Peaking*, and facilitating the implementation of the Company’s “dual carbon” efforts in every aspect. In 2023,

³ The “ten hundred million” project for carbon peaking. The project consists of one action plan (CSCEC’s Action Plan for Carbon Dioxide Peaking), one management platform (Carbon Emission Monitoring and Management Platform of CSCEC), and one action initiative (Initiative on Green and Low-Carbon Behavior of Employees of CSCEC); ten key low-carbon/zero-carbon demonstration projects and ten enterprises of the new segment of “dual carbon”; 100 key green and low-carbon technologies, 100 green construction demonstration projects, and 100 green and low-carbon international cooperation projects; 1,000 green and low-carbon technology application scenarios, RMB 100 billion in green financial investments, and 1,000 green and low-carbon offices; 10,000 green and low-carbon construction sites, 10,000 green supply chain enterprises, and 10,000 “dual carbon” professionals.

we recorded 117 advanced scientific and technological achievements for carbon peaking and carbon neutrality, launched 50 demonstration projects for green and low-carbon technologies, selected 58 achievements in green and low-carbon practices on construction sites, and initiated 10 key low-carbon and zero-carbon demonstration projects. Furthermore, 50 enterprises were registered in CSCEC’s self-operating section for green and low-carbon products. We also released a catalog featuring 290 “dual carbon” products and services operated by the Group.

To appropriately respond to various climate-related risk incidents, we require our subsidiaries to develop climate-related risk management systems, standardize management processes, and conduct regular screening and control of environmental risks. In daily management, we promote coordination among multiple departments to take responsive or mitigative actions tailored to specific climate-related risks to address practical management needs, thus laying a robust foundation for climate-related risk management. While climate change presents us with risks, it also creates unprecedented opportunities for value. These opportunities will be key to creating our differentiated core competencies.

CSCEC’s Response to Climate-Related Opportunities

- We progress our R&D on zero-carbon buildings, near-zero-energy buildings, renewable energy operations, low-carbon management, intelligent construction, and smart city technologies to develop **key core technologies**.
- We advance our R&D on new building materials (for example, toughness coatings for enhancing the durability of concrete structures) and low-carbon and carbon-neutral building materials (for example, carbon-fixation concrete) to develop **supportive low-carbon materials**.
- We promote new energy contract management (for example, highway PV and urban streetlights), carbon-neutral smart communities, carbon-neutral smart cities (new energy smart transportation charging infrastructure and smart three-dimensional parking lots), and **multi-tiered solutions** encompassing carbon-neutral areas, parks, and communities.
- We implement the digital transition and bring innovation to our production system through digital transformation, thereby **upgrading our production methods**.
- Embracing the concept of green finance, we utilize green bonds to acquire low-cost funds for green project construction, business investment, and technology R&D, setting a **new model of cross-over integrated “dual carbon” development**.

With an eye on forthcoming climate-related risks and opportunities, we remain resolute in our commitment to infusing “ecological priority and green development” into the entire process of investment, planning, design, construction, and operation, and performing refined management of energy consumption and carbon emissions. We have striven

to identify our potential for carbon reduction. Through initiatives like low-carbon technological innovation, the development of low-carbon product, the attainment of green building certification, the adoption of clean energy, and other emission reduction paths, we will minimize the interplay between climate change and our operations.



Orientations of CSCEC's Response to Climate Change

Green Technology Innovation	<p>We are constantly advancing green technology innovation. We establish dedicated scientific and technological innovation platforms, invest in technology R&D projects, and conduct technology optimization. Through these efforts, we actively explore and promote green construction techniques as well green and low-carbon building technologies to effectively confront the challenges posed by climate change and promote the Company's green transition.</p> <p><i>For details, please refer to [1.3.1 Green Technology Innovation].</i></p>
Green and Low-Carbon Product R&D	<p>We have incorporated green and low-carbon technology research into the Company's overall plan of science and technology development. We are actively engaged in the R&D of major and key technologies and products that are green and low-carbon and promote mass-production, thus enabling CSCEC's products to play a significant role in addressing the challenges posed by climate change.</p> <p><i>For details, please refer to [1.3.2 Green and Low-Carbon Product R&D].</i></p>
Green Building Certification	<p>We have intensified our green building investment and construction and promoted green building certification, constantly expanding the green building sector. As a result, we have established several industry-benchmark and lighthouse projects of near-zero-energy and zero-carbon buildings. Moreover, our efforts have extended to urban renewal and renovation projects, injecting new vitality and ecological value into cities.</p> <p><i>For details, please refer to [1.3.3 Green Building Certification].</i></p>
Clean Energy Utilization	<p>Seizing the opportunities for clean energy development presented by the low-carbon transition, we plan and execute the development and utilization of clean energy such as PV and geothermal and continuously augment the proportion of clean energy use. Through these efforts, we play a significant role in energy structure adjustment, energy conservation, and emission reduction.</p> <p><i>For details, please refer to [1.3.4 Clean Energy Utilization].</i></p>

We have participated in the preparation of carbon emission standards in the construction sector, including the *Carbon Emission Calculation and Accounting Standard for the Urban-Rural Development Sector*, a national standard; and the *Carbon Emission Calculation Standard for the Construction Stage of Industrialized Buildings*, a standard of the China Association of Building Energy Efficiency. Through these efforts, we explore ways to improve the methodology for carbon statistics and accounting in the construction sector. We continually track our GHG emissions and improve our system of carbon emission statistics, monitoring, verification, and reporting. We have established a carbon inventory work camp consisting of 12 technical subsidiaries of the Company, and issued technical documents such as the Company's carbon inventory guidelines and carbon inventory Q&A manual. Moreover, we have engaged third-party agencies with professional qualifications to conduct GHG audits of the Company to map out carbon emission data in all aspects and identify our potential for carbon reduction. In 2022, we completed a carbon inventory, identifying the carbon emissions characteristics of six areas, including housing construction and infrastructure. Based on the results of

the carbon inventory, we analyzed the current status of carbon emissions in each area and preliminarily identified differentiated emission reduction paths for different types of projects. These outcomes provide an important data model and algorithmic basis for international benchmarking of China's construction companies in carbon emissions.

Furthermore, we utilize carbon assets to reduce emissions and engage in market transactions, where we offset carbon emissions by purchasing green electricity, green certificates, and carbon emission reduction credits. For self-owned and operated projects, we actively develop China Certified Emission Reduction (CCER) carbon assets. For clean energy projects such as hydroelectric power stations, energy storage power stations, and PV power stations that we invest in and construct, we promote environmental equity assets, including green electricity and CCER assets, to owners. Additionally, we have researched on internal carbon pricing mechanisms and have explored virtual carbon trading models, pursuing the incorporation of the construction industry into the carbon trading system as soon as possible.

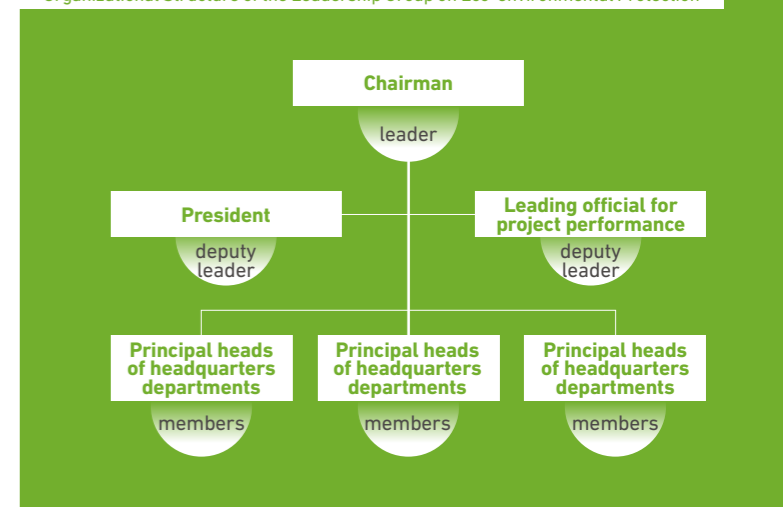
Environmental Management

Environmental Management System

At CSCEC, we diligently fulfill our primary responsibility for environmental protection. In our environmental management, we adhere to the principles of "giving priority to protection, green development, focusing on prevention, conducting comprehensive treatment, engaging everyone, enforcing accountability for damage, and legal compliance." With the support of a robust environmental management system, we have strengthened our capabilities in every aspect of environmental risk management. Furthermore, we monitor ecological conservation efforts and launch ecological restoration projects, seizing new opportunities for corporate development in the eco-environment area.

We comply with the latest national and local policies and regulations. We have formulated policies such as the Management Measures of CSCEC for Eco-Environmental Protection, the Management Regulations of CSCEC on Responsibilities for Eco-environmental Protection (for Trial Implementation), and the Project Management Handbook of CSCEC, and we improve them from time to time. Additionally, we have established a Leadership Group on Eco-environmental Protection, with the Chairman as the leader, the President and leading official for project performance as deputy leaders, and principal heads of headquarters departments as members, along with an organizational working mechanism. We have also optimized environmental protection staffing at all levels as well as the regulation, constraint, and guidance for environmental management for subsidiaries at all levels and projects. These efforts are aimed at consolidating our environmental management system.

Organizational Structure of the Leadership Group on Eco-environmental Protection



Responsibilities and Working Mechanism of the Leadership Group on Eco-environmental Protection

Responsibilities	Responsibilities of the Leadership Group	Responsibilities of the Office of the Leadership Group
Working Mechanism	<ul style="list-style-type: none"> Implementing national guidelines and policies on eco-environmental protection and pertinent national laws and regulations. Coordinating, planning, and deploying environmental protection, energy conservation, and emission reduction. Studying and determining major matters related to eco-environmental protection. Studying and solving major problems in eco-environmental protection. Recognizing and rewarding model collectives and individuals in eco-environmental protection. 	<ul style="list-style-type: none"> Raising work recommendations to the Leadership Group and organizing the implementation of the Leadership Group's decisions and deployments. Drafting and revising the management system of eco-environmental protection and guiding subordinate enterprises in the formulation of eco-environmental protection work systems. Guiding and supervising the eco-environmental protection of subsidiaries. Organizing eco-environmental protection training and inspections. Raising commendations and rewards for eco-environmental protection.
	<ul style="list-style-type: none"> The Leadership Group convenes plenary meetings according to the needs of its work to study, deploy, and summarize eco-environmental protection efforts, and to resolve important issues in eco-environmental protection in a timely manner. In case of urgent and important matters, countersigning and deliberation in writing may be conducted upon the approval of the group leader. The meetings of the Leadership Group is presided over by the group leader, at which the resolutions are reached and divided for implementation. For the meetings of the Leadership Group, the office of the Leadership Group convenes and organizes the meetings, collects and proposes meeting topics, and supervises decision-making matters. 	

Total environmental protection investment and expenditure

RMB **698** million

We have further broken down environmental management responsibilities. Moreover, we encourage our subsidiaries at every tier to conduct environmental protection assessments and evaluations and to link factors such as energy conservation and eco-environmental protection to the performance of the relevant persons in charge.

We actively pursue third-party environmental certification. As of the end of the Reporting Period, we, headquarters of our second-tier subsidiaries, and our third-tier subsidiaries, adding up to 189 companies, maintained valid certification of the ISO 14001 environmental management system.⁴ In 2023, we invested and expended a total of RMB 698 million on environmental protection.



CSCEC's Environmental Management System Certificate

⁴ The scope of certification primarily covers the general contracting, design, construction of all kinds of industrial and civil buildings; design and construction of people's air defense and underground space engineering; general contracting of roads, bridges, and public utilities; urban planning; engineering survey; engineering supervision; and engineering consulting and related management activities.



During the Reporting Period, we initiated a series of measures to strengthen our environmental risk identification and response, raise awareness of environmental risk prevention among all employees, and eliminate hidden hazards posed by risks.

Enhancing work coordination and deployment:

We convened special meetings on eco-environmental protection to summarize and disseminate the progress and problems, thereby improving environmental risk management.

Enhancing risk screening and rectification:

We launched special screening and rectification activities for environmental protection, general screening and rectification, and capacity enhancement in specific areas to improve our ability and performance of risk prevention.

Enhancing training, promotion, and learning from demonstration:

We organized training on eco-environmental protection featuring lecture by experts, benchmarking, and field studies. Through these initiatives, we enhanced the environmental awareness and ability of managers at all levels in fulfilling their duties. In 2022 and 2023, we hosted more than 3,800 environmental protection training sessions for more than 134,000 trainees.

Environmental Risk Management

At CSCEC, we incorporate environmental risk identification and management into our investment, project construction, and operations. Major environmental risks we have identified include air pollution, water pollution, noise pollution, solid waste pollution, soil pollution, and ecological damage and associated risks resulting.

We mandate all projects to establish a complete environmental protection responsibility system, and we assign eco-environmental protection responsibilities to every section across the production and operation processes, thereby strengthening risk prevention and control. For all investment projects, we mandate enhancements in supervision during the process and evaluation after project conclusion. Particularly, we avoid investment projects in environmentally fragile areas. For construction projects, we expressly order our subsidiaries and projects to integrate environmental management risks into their overall corporate compliance management system. Our projects must identify, evaluate, and control environmental factors, make implementation plans, and implement all measures as per the environmental impact assessment (EIA) report and the mandates of the local government. In 2022 and 2023, we experienced no general and above environmental emergencies.

Initiatives of CSCEC's Projects for Preventing and Responding to Environmental Risks:

- Strictly implement red lines for environmental protection, minimum standards for environmental quality, ceilings on resource utilization, and environmental negative lists.
- Earnestly fulfill the legal obligations of environmental protection, complete environmental protection compliance procedures on time, and strictly implement the "three simultaneously"⁵ requirements for construction projects.
- Make plans for eco-environmental protection and identify and assess environmental factors following EIA policies, as well as maintain risk records and develop response plans.
- Regularly screen pollutant sources and risk points in eco-environmental protection and control hidden perils; properly respond to environmental protection risk events; and timely locate problems and hidden perils and rectify and eliminate them.
- Actively cooperate with external law enforcement and regulatory activities for eco-environmental protection, including national and local inspections and checks.

⁵ Pollution prevention facilities in construction projects shall be designed, constructed and put into use simultaneously with the main project. Pollution prevention facilities shall comply with the requirements of the approved environmental impact assessment document, and shall not be arbitrarily removed or left idle.

Green Management

At CSCEC, the green and environmental protection concept is practiced throughout the lifecycle of a project, including design, construction, and operation. We have established clear methodologies and standards for calculating and monitoring energy and resource consumption during our production and operations. Our priorities include design solutions, building materials, as well as clean production technologies, processes, and equipment that support environmental protection and resource conservation, underpinning green development with green management.

Design Stage

We develop standardized design technology, industrialized production technology, and prefabricated construction technology based on green design principles. The full adoption of construction techniques with lower energy consumption and emissions in projects is encouraged in the design stage. Additionally, we thoroughly integrate new ideas such as passive energy conservation in building design to optimize our design in every aspect.



Case

Near-zero-carbon Design Scheme for CSCEC's China Construction No. 1 Tower

In its design stage, CSCEC's China Construction No. 1 Tower project adopted renewable energy sources such as PV power generation, PEDF (PV, energy storage, direct current, and flexibility), and ground-pump heat source. It has a PV area of about 7,000 m² with an annual power generation of about 1,060,000 kWh, reducing carbon emission by about 557.24 t annually.

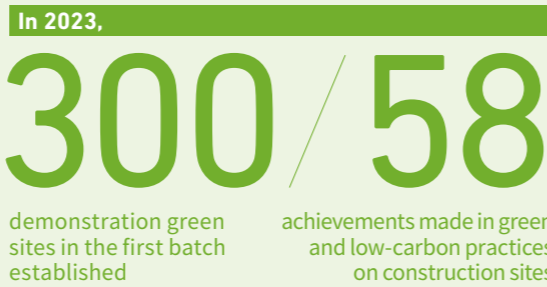
Supported by nearly 50 low-carbon building technologies in six categories, the project perfectly meets the near-zero-energy and near-zero-carbon building standards in terms of comprehensive energy-saving rate, renewable energy utilization rate, and carbon reduction rate.



Construction Stage

At CSCEC, we actively adopt new construction methods that feature green, industrialization, and intelligence and continuously advance the application of the "four new (new materials, technologies, techniques, and equipment)." Our priorities lie in adopting energy-saving and consumption-reducing construction technologies, processes, equipment, and facilities; promoting information technologies; and increasing the use of green new energy. These efforts have led to science-based resource utilization and intensive green construction. We have formulated *the Implementation Plan for the Evaluation and Recognition of Green Sites of CSCEC* and other policies. Following these guidelines, we have evaluated and recognized green sites and established a green supply chain, thereby enhancing our overall

management of green project construction. In 2023, we established the first batch of 300 demonstration green sites and made 58 achievements in green and low-carbon practices on construction sites.



Water

- Water-saving appliances are used in the office and living areas of the construction site.
- Intelligent water meters are used to measure and analyze the water consumption on the construction site to improve water efficiency.
- A rainwater harvesting system is established on site.
- Water is recycled for road washing and vehicle washing.
- A reward and punishment system is established for the project and manage the water quota of sub-suppliers.



Energy

- Charging piles, solar water heaters, and other equipment and facilities are used in our projects to reduce electricity consumption.
- PV, air-source heat pumps, and other new energy sources are used in our projects.
- Electricity is measured consumption differently in the office, living, and production areas of the construction site.
- In the living areas of the construction site, induction cookers are used instead of gas stoves.



Building Materials

- Material procurement is broken down.
- Storage and turnover of construction materials are enhanced on the site.
- Our operational processes are improved to reduce unnecessary material loss.

CSCEC's Energy Conservation and Consumption Reduction Initiatives on the Construction Site

Operation Stage

During the operational stage of our projects, we implement requirements for refined energy management and enhance monitoring and assessment of energy consumption. For some of the self-owned projects, we have included operation and management requirements on environmental protection in commercial agreements. Our subsidiary, China Overseas Property, has issued policies such as the *Detailed Rules of China Overseas Property Holdings Limited for Energy Conservation Assessment*. These policies incorporate the evaluation of water, electricity, and other forms of energy consumption into the company's assessment process.

In several projects, we have adopted high-efficiency energy systems. They feature chilled-beam air conditioning systems with independent temperature and humidity control, magnetic levitation high-efficiency machine rooms, the recuperation of waste heat from data rooms, comprehensive heat recovery from ventilation systems, the integration of high-efficiency intelligent lighting, and rooftop PV renewable energy. These systems improve systematic energy efficiency, thereby achieving energy conservation and carbon reduction.

Rooftop PV in China Construction Green Industrial Park



Case

CSCEC Green Industrial Park

The office building of China Construction Green Industrial Park in Shenzhen-Shantou Special Co-operation Zone, Shenzhen, is a leading PEDF building. The project stores the electricity generated by rooftop PV power generation devices for flexible consumption. The project has been in operation for more than a year, during which it has saved electricity by more than 100,000 kWh, equivalent to saving standard coal 333,400 t; and has reduced carbon emission by more than 47%, equivalent to planting 160,000 m² of trees.

Ecological Conservation

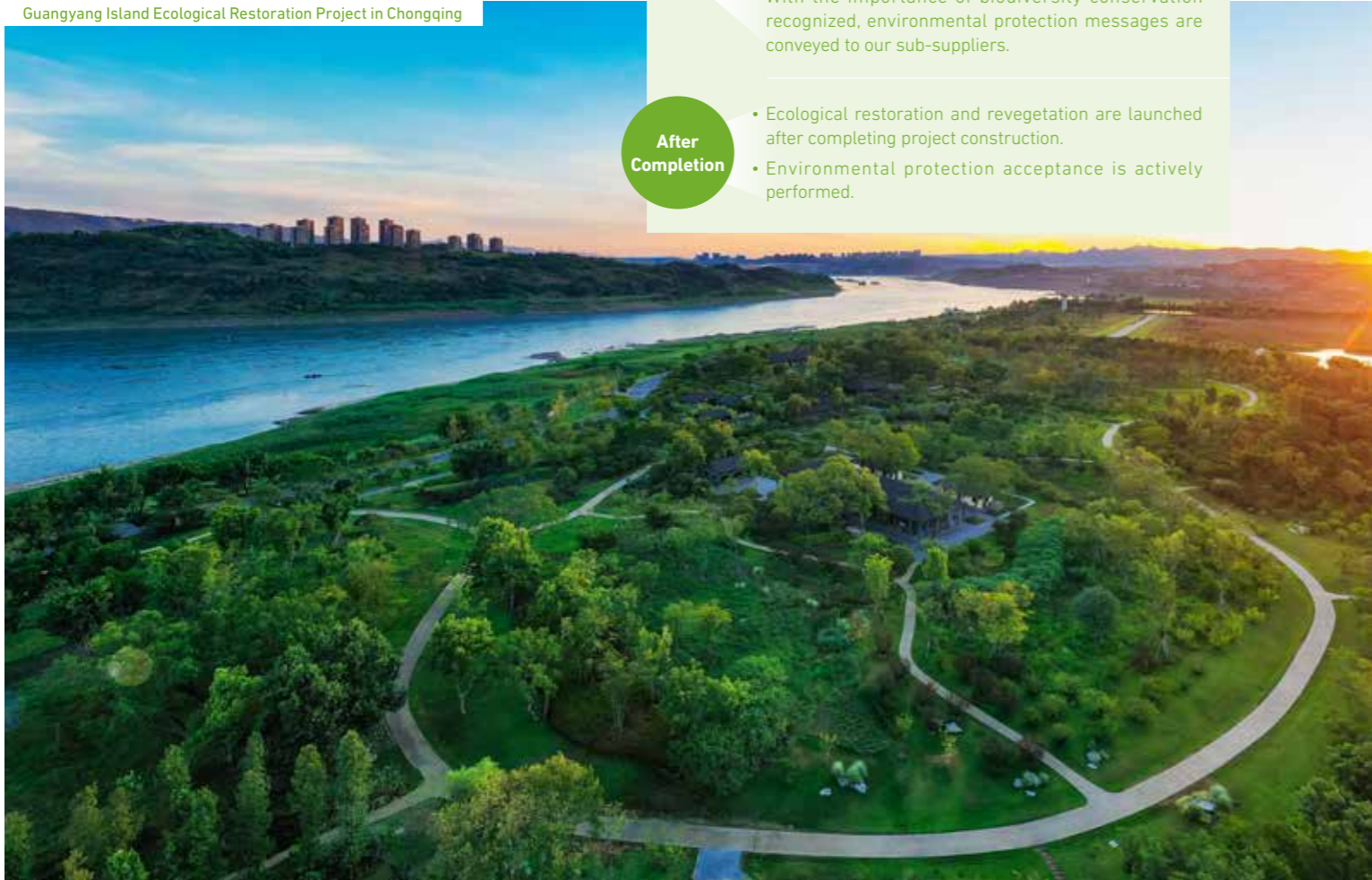
Ecological conservation is part of our management of all stages across the project lifecycle. We consistently prioritize conservation efforts, actively implementing various biodiversity conservation initiatives. Moreover, we increase the use of sustainable materials to further minimize our impact on the ecosystem.

Biodiversity Conservation

Our vigilance extends to monitoring the ecological impact on our operating sites. We commit to avoiding project construction and greenfield development in national nature reserves to conserve the local ecology and rare species of wildlife. Throughout the Reporting Period, no adverse impacts on the eco-environment were detected as a result of our investment, construction, or operation activities.



Guangyang Island Ecological Restoration Project in Chongqing



Chongqing Guangyang Island Ecological Restoration Project Leverage our edge across the entire industry chain, we seize opportunities in eco-environmental protection. As part of these efforts, we actively participate in external pollution control and ecological restoration and have undertaken and implemented several landmark environmental improvement and ecological restoration projects. In 2023, three of our projects, namely Hubei Zhijiang Jinhu National Wetland Park, Wuliangsuhai in Inner Mongolia, and Chongqing Guangyang Island, were recognized among the first batch of 15 excellent typical cases of the national Shan-Shui initiative.

Biodiversity conservation investment projects are under our close monitoring. We actively participate in major ecological restoration projects such as the Yangtze River Protection and the Yellow River Basin Protection and join forces in creating and sharing ecological returns in various segments of the value chain.

Sustainable Materials

At CSCEC, we prioritize the widespread adoption of sustainable materials and promote sustainable procurement practices and the reuse of construction materials. We have issued policy documents such as the *Implementation Plan of CSCEC for Green Supply Chain Construction*. These documents provide guidance for

Case CSCEC's Ecological Restoration Project in the Zhijiang Jinhu National Wetland Park, Hubei

In CSCEC's ecological restoration project in the Zhijiang Jinhu National Wetland Park, Hubei, 668 ha of wetlands have been conserved and restored, and 26,869 m³ of wetland water systems have been connected. The forest and vegetation coverage in the area has been increasing. Moreover, 510,016 m³ of water systems have been dredged, and 152,607 m² of aquatic plants have been cultivated. Together with bird habitat construction and other efforts, the project has promoted ecological resource restoration.

projects in selecting green materials and suppliers with green construction material certification marks throughout their lifecycle. In 2022, 99% of the wood purchased in Hong Kong by CSCI, our subsidiary, was certified by the Forest Stewardship Council (FSC). The rate rose to 99.8% in 2023.



The FSC certificate (left) and the Programme for the Endorsement of Forest Certification (PEFC) certificate (right) obtained by our subsidiary CSCI for timber that it purchased in Hong Kong

Emission Control

At CSCEC, we uphold our commitment to preventing and controlling environmental pollution throughout our project investment, design, construction, and operations, strictly adhering to pertinent laws and mandates of the state as well as the Company's policies such as the Management Measures of CSCEC for Eco-Environmental Protection. We actively employ IT methods to monitor and analyze the emission impact of pollutants such as wastewater, waste gas, and solid waste and continuously reduce pollutant emissions, thus minimizing our environmental impact.

Wastewater Management

We continuously optimize our wastewater discharge measures. We have installed wastewater treatment equipment and facilities in compliance with mandates to ensure that our wastewater discharge adheres to established standards. Meanwhile, we employ technical methods to enhance wastewater disposal and reuse, thereby improving water efficiency over time.

CSCEC's Wastewater Discharge Management Initiatives

- On construction sites, we establish wastewater treatment facilities, such as sedimentation basins and wastewater treatment stations, to ensure effective disposal, with discharge occurring only when the wastewater meets established standards;
- For wastewater from grease traps and septic tanks on construction sites and in living areas, we engage professional companies for regular emptying;
- For storage sites for toxic materials and oils such as chemicals, we employ a stringent design method for water barriers and perform proper collection and treatment of leachate;
- We never discharge oily wastewater from machine maintenance directly into a water body but collect it for treatment in an oil-water separator;
- We install water recycling facilities for rational recycling and reuses of wastewater.

We adopt various measures to prevent adverse impacts on neighboring organisms caused by sewage discharge during construction and operations. Before construction begins, we will develop and disclose wastewater control measures. After construction begins, we will strengthen inspections. Throughout the Reporting Period, no incident of adverse impacts on biodiversity caused by sewage discharge occurred to the Company.



Waste Gas Management

The gases emitted during the construction and operation of our projects include nitrogen oxides, sulfur oxides, particulate matter, hydrogen sulfide, and ozone-depleting substances (ODS). We have enhanced the monitoring and testing of waste gas emissions and the retrofitting of key emission equipment and facilities into clean installations to mitigate the environmental pollution and impact of waste gas emissions.



Waste Management

We uphold the fundamental principles of "classification at the source, minimization, and recycling," and integrate waste management requirements into all phases of project design, production, construction, and operations.

Initiatives to Minimization from Construction Sites

- Construction waste reduction technologies such as that for reducing solid waste from construction sites have been independently developed. A methodological framework for reducing construction solid waste from the source has also been proposed, which is highly applicable and feasible.
- Digital tools have been developed for reducing metallic and mixed solid waste from the source, which have proven to be significantly effective.
- An integrated solid waste control platform enabled by BIM technology has been developed.
- Prefabricated buildings are developed and promoted.
- The use of on-site working materials is promoted, and combining temporary and permanent facilities is prioritized.
- BIM and other information modeling technologies are used to review construction drawings, optimize designs, check quantities, and address key construction techniques to reduce rework and rectification.
- The smart site system is used to regularly monitor, count, and analyze waste to keep track of waste discharge in real time.

Results of Minimization

- CSCI has developed two structural systems: concrete MiC⁶ and steel MiC⁷, which reduce construction waste by more than 70% compared to traditional construction techniques.
- China Construction 5th Engineering Bureau has constructed China Construction Qipei for prefabricated electromechanical components, and China Construction Science & Technology operates various PC Component Factories. These efforts aim to facilitate the factory-based production of modularized and prefabricated building materials and components.
- The Guanlan Culture Town project in Shenzhen, undertaken by China Construction First Group Corporation, was selected as one of the first batch of 30 pilot projects of "zero-waste site" construction in China.

⁶ In MiC, or Modular integrated Construction systems, major building elements, including structure, interior and exterior, and electromechanical systems, are prefabricated and integrated in the factory. This technology significantly reduces on-site work and relieves resource demands and operational conflicts during peak periods. It has the advantages of high construction speed, high degree of industrialization and integration, and less waste emissions. The concrete standard module boasts a stress performance equivalent to that of cast-in-place concrete structural system and can meet the seismic requirements of high-rise buildings. The interior and piping installation of the product is completed at the factory, and only connection and assembly are done on site, which greatly shortens the construction period.

⁷ The steel structure standard module consists of steel columns, steel beams, steel top plates, and concrete-combined floors. The external enclosure structure adopts light-steel keel walls or corrugated steel plates. The light-steel keel wall is easy to install, and the external decorative surface can be flexibly designed. The corrugated steel plate enhances the rigidity of the main frame and prevents large deformation during lifting.

We actively pursue new recycling technologies. Through on-going enhancement of technological innovation and the R&D and operation of new equipment, we are consistently strengthening the efficiency of waste recycling.



Self-developed comprehensive treatment equipment for solid waste on the construction site

Details: It is used to process inorganic non-metallic solid waste generated during the construction. Through crushing, shaping, and screening, it repurposes the waste into recycled coarse aggregate for concrete. In this way, the costs of construction waste transportation and treatment are saved. Moreover, the processed products meet the demand for coarse and fine aggregates on the construction site, thus significantly reducing the discharge of solid waste.

Application: China Construction Eighth Engineering Division, a subsidiary of CSCEC, tackled the challenge of preparing high-performance recycled concrete during the construction of the Shaoxing North Railway Station TOD project in Shaoxing, Zhejiang Province. To achieve this, the company studied the crushing of construction waste concrete, the testing and improvement of recycled aggregates, the test proportioning of recycled concrete, and the composition analysis and green evaluation of recycled concrete. This outcome enhances the working performance and durability of recycled concrete, effectively reduces and mitigates natural resource scarcity, and alleviates environmental risks to a certain extent.

Key technologies for components of recycled concrete systems

Details: We have proposed a technical solution for the recycling of waste concrete and developed a special composite admixture for regulating the performance of recycled concrete. They not only expand the applicable scope of recycled materials but also reduce the secondary pollution of construction waste, thereby contributing to the circular economy.

Application: China Construction Eighth Engineering Division, a subsidiary of CSCEC, has developed a wide range of zero-emission recycled building materials, including manufactured sand, recycled aggregate, recycled bricks, and fluidized solidified soil. With its efforts, 100% of waste lime can be reused. Zhongjian Hailong Technology Co., Ltd., a subsidiary of CSCEC, reuses solid waste to produce inorganic artificial stone, a recycled new finishing material. With its efforts, more than 95% of solid waste can be reused. The recycled new finishing material has been certified as a Three-Star Product of China Green Building Materials.

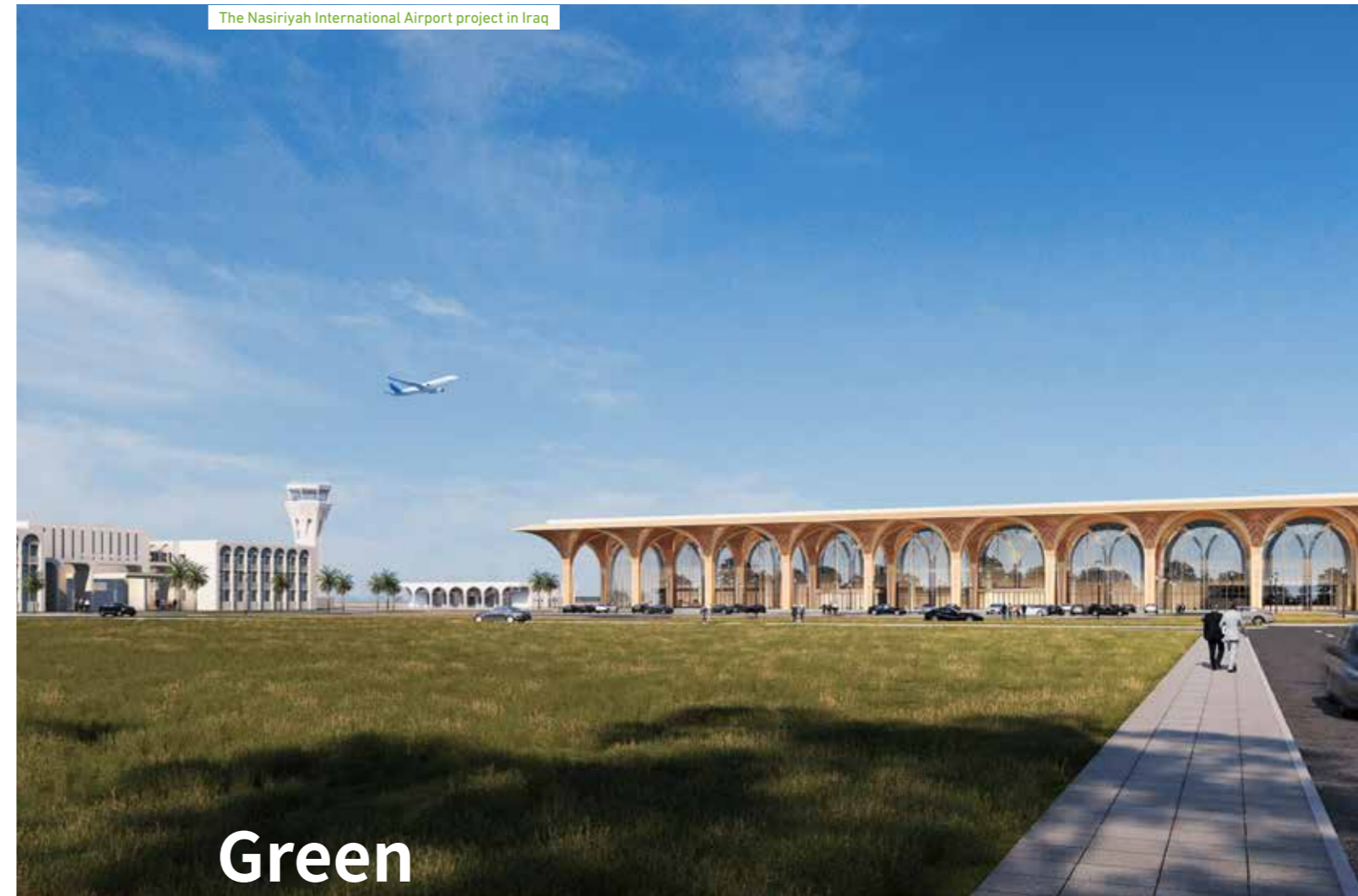
Key technologies for the preparation of prefabricated precast structural components from industrial solid waste in large dosage

Details: These technologies allow the coordination among solid waste dumps, component factories, and the engineering site in the same city. They advance solid waste recycling and reduce GHG emissions during transportation.

Application: The technological result is widely applied in sites in Beijing and many parts of Northeast China, with a total area of more than 600,000 m².

In addition to our own waste reduction and recycling efforts, we encourage our suppliers to participate in material recycling actions and formulate incentives. In our contracts or agreements, we explicitly require suppliers to classify

waste according to the Company's standards and prioritize recyclable materials. Suppliers will be rewarded for meeting material control targets.



The Nasiriyah International Airport project in Iraq

Green Development

Green Technology Innovation

We acutely recognize that to achieve the green transition and promote sustainable development for our own, it is imperative to actively seek paths to carbon reductions, develop efficient emission reduction technologies, and adopt effective emission reduction measures. We remain steadfast in our commitment to integrate "ecological priority and green development" into the entire process of our business operations and reduce carbon emissions across the board by innovating in green technologies, developing green and low-carbon products, obtaining green building certification, tapping clean technologies, and promoting green offices. These efforts demonstrate our strategic resilience in combating climate change and our mission as a responsible enterprise.

We adhere to the leadership of green innovation, strengthen the support low-carbon science and technology, and incorporate green science and technology research into the Company's core strategy. We continue to promote green science and technology innovation initiatives, deeply tap into innovative and high-quality projects, and make every effort to promote the application of scientific and technological achievements. We make efforts simultaneously in project-based R&D, demonstration scientific and technological projects, scientific and technological innovation platforms, and advanced achievements, iterating and upgrading our science and technology.

R&D Projects

In 2022, we launched the first batch of sci-tech R&D tasks for carbon peaking and carbon neutrality. Under the framework of "1 carbon platform construction + 10 demonstration projects of ultra-low-energy buildings and parks + 100 demonstration projects of carbon platform application," we constructed the first batch of specialized projects on carbon peaking and carbon neutrality.

In 2023, we initiated company-level research projects on carbon peaking and carbon neutrality based on the "dual carbon" technology map. These projects focused on topics such as "Low-Cost Building Waste Recycling Technologies," "Zero-Carbon and Near-Zero-Energy Retrofitting Technologies for Existing Buildings," and "New Building PV Integration Technologies." They continually promoted the Company's green and low-carbon technology development on all fronts.

Demonstration Sci-Tech Projects

We have initiated demonstration projects of green and low-carbon technologies along with the R&D of monitoring and measuring technologies for energy consumption and carbon emissions in the construction domain. In 2022, we started constructing the Carbon Emission Monitoring and Comprehensive Management Services Platform for CSCEC, which encompasses our six business segments, namely, offices, housing construction, infrastructure, self-owned properties, survey and design, and new business. Our efforts are aimed at facilitating the promotion and application of new energy, technologies, and products that are green and low-carbon.

Sci-Tech Innovation Platforms

We actively facilitate the construction of sci-tech innovation platforms. In 2022 and 2023, we participated in the establishment of two national sci-tech innovation platforms: the State Key Laboratory of Green Building and the National Engineering Research Center for Soil Nutrient Management and Pollution Remediation.

- China Construction Science and Technology collaborated with Xi'an University of Architecture and Technology to construct the State Key Laboratory of Green Building. This laboratory focuses on the R&D, construction, and promotion of industrialized building products, intelligent construction equipment, and green and low-carbon product integration. It has become a "strategic scientific and technological strength" in China's green building sector.
- The National Engineering Research Center for Soil Nutrient Management and Pollution Remediation, which engaged China Construction Eighth Engineering Division in the construction, held the inauguration ceremony by co-contractors on October 2023, in Shanghai. Supported on the center, we continue to expedite our expansion in soil remediation, actively tackling various challenging key technologies.

Advanced Achievements

We comprehensively sort out and continuously promote scientific and technological achievements recognized as international advanced and at higher levels. In 2022, we registered the Company's scientific and technological achievements and compiled the Company's first list of advanced scientific and technological achievements of carbon peaking and carbon neutrality, which included 77 items such as the "R&D and Application of Key Energy Conservation and Consumption Reduction Technologies for Transmission and Distribution Systems of Large Public Buildings." In 2023, we released the second of such lists, which included 177 achievements such as the "Research on Key Technologies for Ultra-low Energy Consumption Residential Buildings in Severe Cold Regions and Their Industrialization Practices."

CSCEC's New Initiatives for Innovation in Green Technologies



Case

Modular Integrated Construction (MiC) Independently Developed by CSCEC

The "Key Technologies of Modular Integrated Construction (MiC) Design, Production, and Application" independently developed by Zhongjian Hailong Technology Co., Ltd. (Zhongjian Hailong), a subsidiary of CSCEC, boasts seven Hailong Model product portfolios. These product portfolios apply to diversified scenarios, including residential buildings, hospitals, schools, hotels, public buildings, exhibition halls, office buildings, elevators installed in old buildings, and cultural and tourism facilities. Compared with traditional construction methods, MiC technology can shorten the construction period and reduce solid waste discharge and the amount of on-site labor. Moreover, MiC can become a standard instrument for intelligent building space and digital manufacturing, empowering housing with technology and improving people's living experience. The technological result was selected as one of the national Top 10 New Technologies in Engineering Construction in 2022 and Innovation China's Leading Green and Low-Carbon Technologies in 2022.

Green and Low-Carbon Product R&D

We have integrated our commitment to breakthroughs in green and low-carbon technologies into the Company's overall planning of scientific and technological progress. We have published the *Directory of Green and Low-Carbon Products and Services*, which contains low-carbon technology products such as building materials, building components, facilities and equipment, and design drawing compilations. We have also been engaged in the R&D of major and key green and low-carbon technologies and

products. In recent years, we have continued our efforts in prefabricated building and construction, new green and low-carbon materials, new energy-saving and environmentally-friendly equipment, and utilization of construction solid waste. Our efforts are focused on the continuous R&D of green and low-carbon technologies and products, as we are committed to significant improvements in our technological expertise and market competitiveness.

Modular PEDF Integrated Smart Energy Box

The product integrates the systems of power transformation, power distribution, power consumption, PV, energy storage, charging, and discharging. It is capable of using electricity economically, consuming PV power generation, level peak-valley gaps, improving energy efficiency, and responding to the demand side. It boasts the technical advantages of 98% PV conversion efficiency and green power loss mitigation by more than 5%.

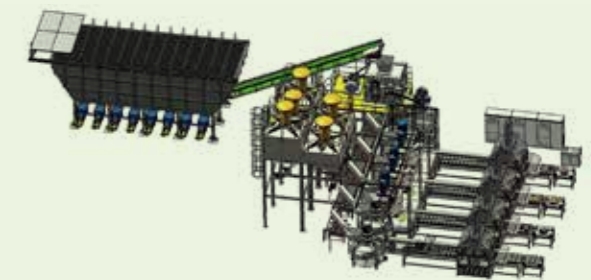
The product has obtained the Carbon Footprint Verification and won the International Design Awards (IDA). It has been applied in projects such as the Green Office Building of China Construction Science and Technology.



Stone Maker (In-situ Recycling-Production Line of TBM Waste Earth)

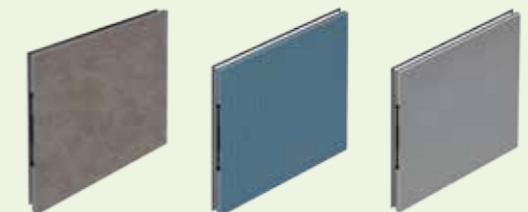
The product adopts self-developed technology of dehydration-free solidification preparation of building materials. It can prepare various recycled waste earth products and low-carbon building materials directly from paste TBM waste earth without dehydration. The process is low-carbon and environmentally friendly, as it involves no waste water or gas emissions.

The product has been put into industrialized application, treating more than 20,000 m³ of TBM waste earth. The placing bricks, fluidized solidified soil, and grouting materials prepared by it have been applied in projects such as Changsha Metro Line 7, with a significant effect in carbon reduction.



Light A Lightweight Faux-Aluminum Curtain Wall Components

This series of products adopts spectral design and battery cell design, which can save electricity efficiently. A 100-m² Light-A PV wall can generate an average of 12,000 kWh of electricity per year, reducing CO₂ emissions by 10 t, which is equivalent to planting 35 trees, and catering to the annual electricity needs of about six households.

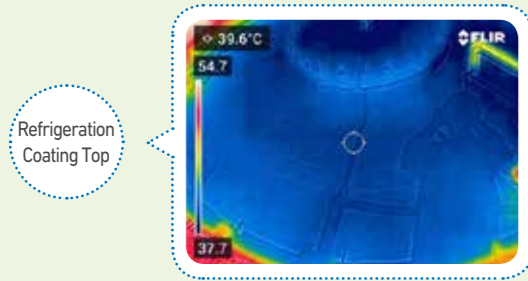
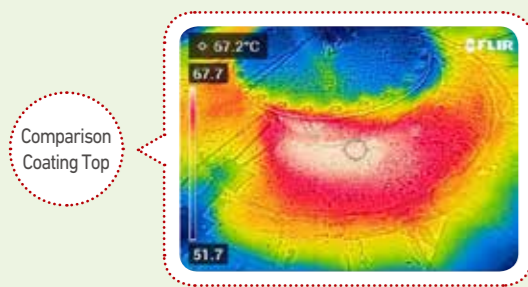


CSCEC's Green and Low-Carbon Products and Their Application Examples

Case

CSCEC Green Coating Superamphiphobic Self-Cleaning Passive-Radiation Refrigeration Coating

China Southwest Architectural Design and Research Institute Corp. Ltd (CSWADI), a subsidiary of CSCEC, has developed a self-cleaning refrigeration coating that can achieve a passive refrigeration effect at a surface temperature constantly lower than the ambient temperature. It also has the superhydrophobic and superoleophobic self-cleaning performance, which guarantees the long-term refrigeration performance of the coating and realizes the maintenance-free effect. This coating has been applied in eight domains (big data centers, electric power facilities, communication base stations, civil buildings, and living facilities), with a total application area of more than 200,000 m² and a comprehensive refrigeration power-saving efficiency of 50% to 80%. The product won an award in the Shining Star Innovation Competition for Central Enterprises. In 2022, the trademark of "CSCEC Green Coating" was registered for the large-scale promotion of the product.



Effect comparison of CSCEC Green Coating in the application in liquid ammonia storage tanks

Green Building Certification

At CSCEC, the promotion of green building certification and the R&D of green building technology have always been our top priorities. We are dedicated to promoting large-scale development of green buildings, expanding green building investments and construction, and increasing the proportion of ultra-low-energy buildings in development. We continue to enhance our capacity for integrated "dual carbon" services. We have been involved in establishing several national, local, and group standards for green buildings, ultra-low-energy buildings, zero-carbon buildings, and zero-carbon communities. Our commitment extends to developing key green building technologies, introducing a range of ultra-low-energy and zero-carbon building technology systems and innovative products, and launching benchmark projects of near-zero energy and zero-carbon buildings that lead the industry.

Green Building Commitment:

In 2025, 100% of the new buildings invested and developed by CSCEC will comply green building standards⁸, and star-rated green buildings will exceed 30%.



Case

CSCEC Science and Industry's New Energy Charging Pile

Charging piles have become one of the seven segments of China's new infrastructure. China Construction Science and Industry Corporation Ltd. (China Construction Science and Industry) focuses on the key issues in the field of new infrastructure and continuously improves its independent innovation capability. It has independently developed a series of 7.5 kW - 360 kW new energy charging pile products and launched a charging pile brand, Chongmei, a winner of the International Design Awards (IDA). It combines new energy vehicle (NEV) charging with big data platforms to realize data sharing and organic connection with other intelligent terminals and management platforms, creating a new digital charging method. Simultaneously, it provides the necessary power supply for NEVs, thereby reducing the burning of fossil fuels in an all-round way, vigorously mitigating carbon dioxide emissions, and promoting the green and low-carbon transition of the transportation sector.



Over **2,000**

We are constantly pursuing green building certifications, with a large number of our new and operation projects successfully attaining green building ratings in China. As of the end of the Reporting Period, we had completed over 2,000 green building-certified projects, of which 215 were three-star green buildings.

conservation renovation of their own buildings. As of the end of the Reporting Period, we had more than 80 zero-energy building projects under construction and more than 50 projects completed, showcasing our preliminary holistic and comprehensive solution capabilities. COHL, a subsidiary of CSCEC, has released the *CSC Land Green Building Technology Handbook*. The China Overseas Tower in Shenzhen has been recognized by the Ministry of Housing and Urban-Rural Development as a commercial Zero-Carbon Building Technology Demonstration project, and the China Overseas Heshan Dagan project in Hohhot has been acknowledged as the largest near-zero-energy building cluster in China's frigid regions.

⁸ The Assessment Standard for Green Building GB/T 50378, a national standard of the People's Republic of China; the LEED green building certification in the U.S.; and other standards.

To bolster the irritation and innovation of green technology and accelerate the promotion and spread of low-carbon products, we provide diversified financing channels for green industries by issuing green bonds, green funds, and other financial products. In 2023, China West Construction Group Co., Ltd. issued a RMB-1-billion green bond backed by green building materials products. The proceeds were used for the manufacturing of green building material products, thus comprehensively supporting the production and operations of the company's ready-mixed concrete production lines.

Case

CSCEC's China Construction Fourth Engineering Division Sci-Tech Innovation Tower Becomes China's first Near-zero-Energy Building over 150 m

The China Construction Fourth Engineering Division Sci-Tech Innovation Tower project adopts various passive energy conservation methods such as steel structure main body, unit-based curtain walls, elevated flooring, and assembled machine rooms, thus achieving efficient energy conservation. The project adopts recyclable PEDF modular temporary buildings and PV curtain walls for the façades of permanent buildings, generating up to 650,000 kWh of electricity annually. The illuminance of most areas on the high floors of the tower can reach more than 8 hours/day. Along with the daylight sensor-based lighting control, the lighting energy consumption is significantly reduced. The project has explored technological pathways for ultra-high-rise buildings to achieve energy conservation and low carbon. It reaches an advanced level even in the global industry and provides a demonstration case for the promotion and implementation of ultra-high-rise near-zero-energy buildings.

In October 2023, the project was awarded the Near-Zero-Energy Building Certificate by the China Association of Building Energy Efficiency, making it the first super-high-rise office building project in China to receive the Near-Zero-Energy Building Certificate. The project was included in the *National Development and Reform Commission's List of Demonstration Projects of Advanced Green and Low-Carbon Technologies (First Batch)* and ranked first in the construction field among all 47 projects.



Case

CSCEC's China Overseas Fortune Center (Jin An) and Uni Elite Project Receives the Highest Green Building Certification



The LEED Platinum certificate

We prioritize pursuing international green building certifications, with a number of projects obtaining international green building certifications such as LEED and BREEAM, holistically enhancing our brand influence and market competitiveness.

CSCEC's China Overseas Fortune Center (Jin An) and Uni Elite project is located in the west of Beijing and covers a total floor area of 230,000 m². The project has obtained the highest certification in the domestic and international field of green buildings: three-star China Green Building and LEED CS Platinum. The project insists on energy conservation, consumption reduction, and emission reduction in construction and operations, as it is committed to set a benchmark for green buildings and injecting new vitality and ecological value into the city.

In terms of low-carbon construction, integrated design and green building materials are applied in the civil engineering and finishing works of the project. The exterior wall of the building as a whole adopts toughened hollow double-silver-coating Low-E double-layer glass. The curtain wall has such functions as shading, adjusting lighting, and heat and sound insulation. In terms of energy management, ice storage technology is applied in the project's air-conditioning cooling source to improve cooling efficiency, thus effectively reducing the building's energy consumption. In addition, variable air volume air-conditioning units are installed in all office floors, thus significantly reducing the energy consumption of air supply fans. Moreover, the project uses an unpowered solar hot water system to provide centralized domestic hot water supply for showers and cafeterias, effectively utilizing renewable energy. In terms of water management, the project has a self-built reclaimed water station to collect wastewater for toilet flushing and garage washing after disinfection and filtration, with an indoor water saving rate of up to 45%.

At CSCEC, we are actively engaged in urban renewal⁹ and renovation projects. We have established a special work coordination institution for urban renewal at the managerial level. We facilitate the re-optimization of land resources to improve the socio-economic environment. Aligned with the state's strategic directives, we full leverage our advantages across the industrial chain in investment, design, construction, and operations, and participate in the investment and construction of urban village renovation in super and super-large cities, contributing CSCEC solutions to urban renewal. We convened a meeting to underscore

our commitment to urban renewal and the renovation of old communities. At the meeting, we explored innovative models and methods for urban renewal and old community renovation, enhancing the quality and efficiency of CSCEC's urban renewal business.

In 2023, we undertook several major livelihood projects in Beijing, Shanghai, and Guangzhou. Particularly in Guangzhou, we invested in three representative urban renewal projects in succession, with a total investment of more than RMB 65 billion.

⁹ Urban renewal involves enhancing urban functions through the maintenance, renovation, demolition, or expansion of existing city buildings. Unlike green buildings, which focus on energy conservation and consumption reduction in buildings, urban renewal prioritizes the improvement of living conditions and the overall quality of life.



Case

CSCEC's Taoyangli Historical Block Preservation and Renewal Project in Jingdezhen, Jiangxi

The project is located in Zhushan District, Jingdezhen City, Jiangxi Province. It has a building area of about 200,000 m² and an operating area of 185,600 m². Through renovations in lanes, old house repair, environmental improvement, preservation, and renewal in the Taoyangli historical block, the project turned this old area into the 5A Taoyangli ceramic-themed historical and cultural tourism block. It has laid a solid foundation for the Company's urban renewal business and achieved the development goal of enhancing the cultural vitality of the city.

Clean Energy Utilization

At CSCEC, we vigorously promote the adoption of PV power generation, air-source heat pumps, ground-source heat pumps, and other clean energy technologies, providing new options for clean energy for the Company's sustainable development. In 2022, 58% of the projects newly acquired by China Overseas Land & Investment, a subsidiary of CSCEC, used renewable energy sources such as solar and air energy, wherever feasible. In 2023, we continued our efforts in water conservancy, environmental protection, and pumped storage, guiding our subsidiaries to innovate in their models. We have actively launched projects in the sectors of water conservancy, environmental protection, and pumped storage, championing green development on all fronts.

From 2021 to 2023, CSCEC invested RMB 23.664 billion, RMB 30.06 billion, and RMB 32.269 billion in clean technology¹⁰ R&D.



Case

CSCEC (Langfang)'s 5-MW Distributed Rooftop PV Power Generation Project

This project is an important exploratory project of CSCEC's in new energy. The subsidiary has constructed distributed PV on the roofs of CSCEC's machinery factory buildings and the steel factory buildings of China Construction Second Engineering Bureau Ltd., a subsidiary of CSCEC, with a PV panel area of about 31,900 m² and a total installed capacity of 5 MW. The annual power generation of this project is 29,948,600 kWh, which is equivalent to saving 0.9 million t of coal equivalent (tce) and reducing 17,400 t of CO₂ emissions.

¹⁰ Clean technology R&D involves technology R&D in several green and low-carbon areas, such as key technologies for eco-environmental protection and pollution prevention, key technologies for green construction, key technologies for prefabricated buildings, key technologies for functional upgrading and retrofitting of existing buildings and infrastructure, and key technologies for intelligent construction.

Green Office

At CSCEC, we have initiated a special action on "pursuing conservation and running enterprises economically." This initiative is designed to conserve water, electricity, and materials to enhance energy efficiency in our offices. We have released policies such as the *Initiative on Green and Low-Carbon Behavior of Employees* and the *Initiative to CSCEC Employees* to raise their environmental protection and low carbon awareness. We have constructed a data analysis model and organized data collection and analysis to grasp the consumption and use of traditional energy and office supplies in our offices and formulate carbon

reduction and emission reduction plans. Through these efforts, we comprehensively build green and low-carbon offices.

We actively adopt green management initiatives for our office headquarters, CSC Fortune International Center. It has attained the LEED Gold certification as well as BOMA China's five Building Management Excellence (BME) certifications, including Energy Management and Environmental Management, achieving remarkable results in terms of low-carbon and sustainable operations.



Case

CSCEC Low-Carbon Smart Demonstration Office Building, China Construction Binhu Design Headquarters of CSCEC's CSWADI

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The project actively adopts green and low-carbon office initiatives. In terms of water management, it has built a rainwater harvesting tank in the basement for plant irrigation and site washing. A smart irrigation system is adopted to reduce water consumption by about 1,700 t per year. In terms of energy management, the project applies PEDF technology, with distributed PV panels totaling 865 m² in the building. The project as a whole saves 1.86 million kWh of electricity and reduce carbon emissions by about 1,027 t annually.

Social

Promoting
Harmony with
Responsibility

At CSCEC, we actively fulfill our corporate citizenship. To cultivate a responsibility culture, we have established a "133" work system for cultural enhancements and developed the *Creed of CSCEC*, our corporate culture handbook, as well as the *Ten Codes of Conduct and Nine Aspects of Protocol* and its overseas cultural integration version. Furthermore, we have established the Brand Building and Social Responsibility Leadership Group, emphasizing safe production, ensuring product quality, optimizing supply chain management, nurturing talent, actively engaging in community improvement initiatives, and progressing the brand leadership action. Through these efforts, we aim to foster the sustainable development of our value chain and build a harmonious society in collaboration with our stakeholders.



Safe Production

Safety Management

At CSCEC, we uphold to the tenet of “people first and life priority” and adhere to the red line that “never sacrificing people’s lives for the sake of development” when balancing high-quality development with a high level of safety. We take “zero liability accidents” as the ultimate goal of safe production and insist on “starting from zero and striving for zero.” We prevent and resolve major safety risks at the source, and we have established a sound occupational health and safety management system and kept it running effectively. We persist in conducting safety supervision and inspection and promoting a safety culture to ensure high-quality development with a high level of safety.

We have established a safety management system and set out safety management objectives and planning, laying the foundation for safe production through special intelligent safety management.

Safety Management System

At CSCEC, the safety and health of our employees and supplier personnel consistently take precedence in our operational ethos. We have established a comprehensive safe production responsibility system and promoted standardized and intelligent safety management, leading to a holistic enhancement of our safety management.

We have issued the updated “Checklist of Safe Production Responsibilities” and “Checklist of Safe Production Tasks” and established a dedicated safe production assessment team to conduct specialized assessments on subsidiaries’ key performance in safe production. Subsidiaries experiencing

production safety accidents are held accountable, and the assessment outcomes are directly tied to the annual salary of principal directors at subsidiaries. The occurrence of production safety accidents is directly linked to the SASAC’s assessment and rating of the Company, and is directly linked to the annual remuneration of the senior management at the Company’s headquarters.

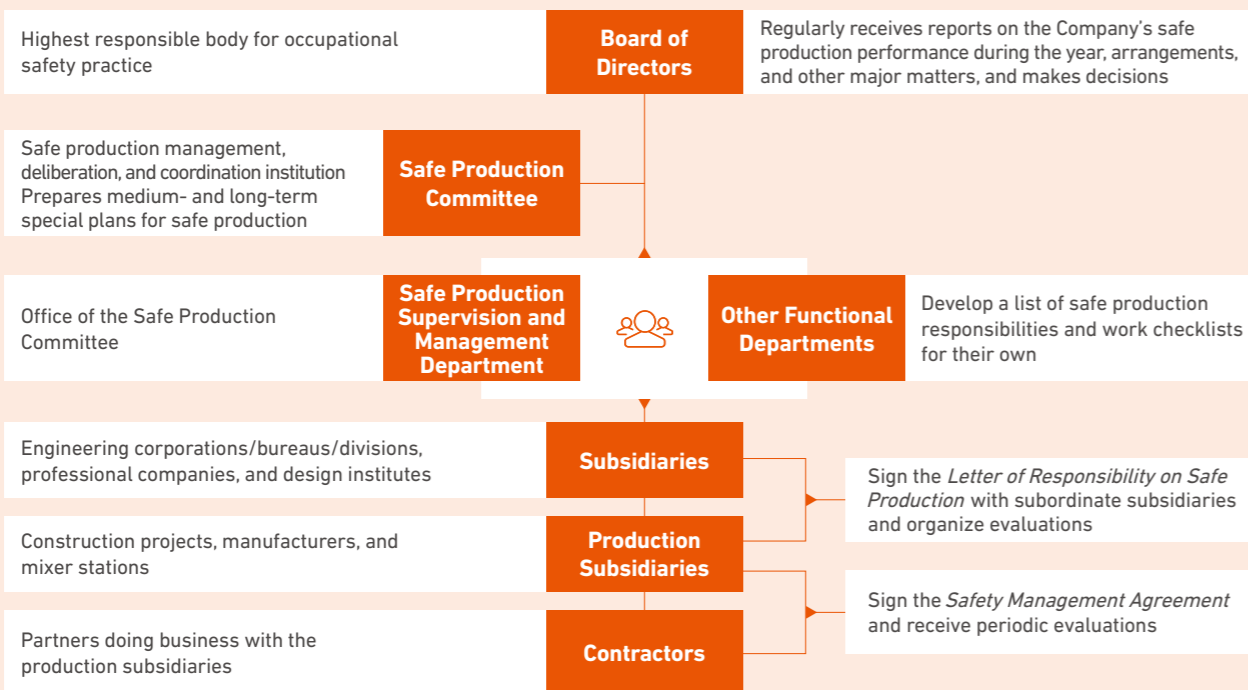
At CSCEC, we strictly comply with the *Law of the People’s Republic of China on Work Safety*, the *Law of the People’s Republic of China on the Prevention and Control of Occupational Diseases*, and other pertinent laws and regulations. We have also formulated policies such as the *Management Measures for Safety Production* and the *Management Measures for Occupational Health*, practically ensuring safe operations. The signing of the *Letter of Responsibility on Safe Production or Safety Management Agreement* at all levels ensures a commitment to safe production among all contractors and operators. We supervise contractors to establish a sound safe production management system and incentivize them to contribute to safe production insurance in accordance with the law to protect the safety rights of employees. As of the end of the Reporting Period, we had obtained the GB/T 45001/ISO 45001 certificate of occupational health and safety management system from the Quality Assurance Center of China Association for Quality.

In 2023, we formulated the *Comprehensive Contingency Plan for Production Safety Accidents*, the *Management Measures for the Graded Management and Control of Safety Risks* and the *Investigation, Management, and Prevention Mechanism for Hidden Perils*, and other documents, implementing our management of safe production as well as occupational health and safety and enhancing the safety management philosophy of eliminating, reducing, or controlling risks at source. Throughout the Reporting Period, no major or above safe production accidents occurred to the Company, and the number of work-related fatalities of employees was zero for three consecutive years.



Certificate of Occupational Health and Safety Management System

CSCEC’s safety management system



The Etihad Rail project, United Arab Emirates



Safe production governance model / **1312**

Safety Management Objectives and Plan

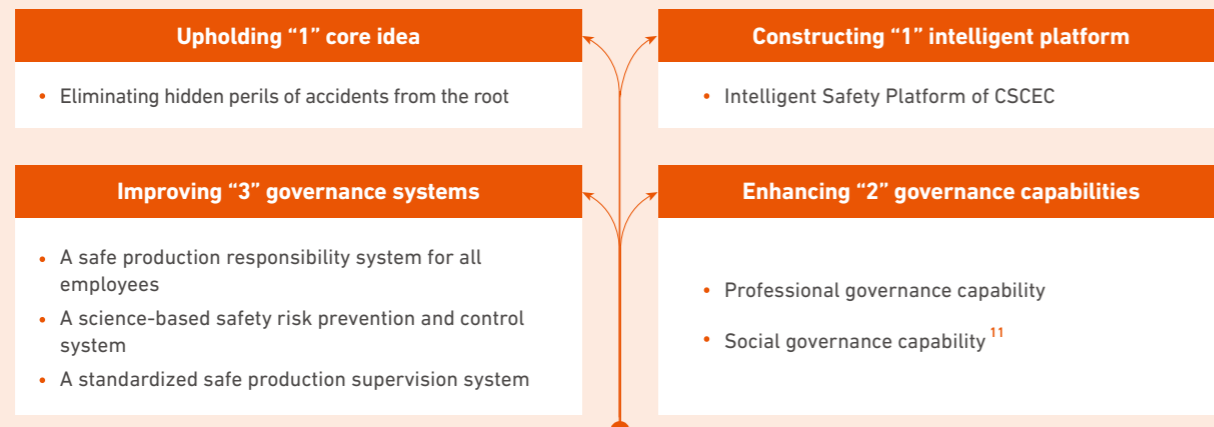
We have prepared and released the *Special Plan for Safe Production during the "14th Five-Year Plan Period"*, outlining our medium- and long-term safety management objectives. During the "14th Five-year Plan Period", we established and implement a "1312" safe production management model, contributing to the modernization of our safe production governance system, committed to be a benchmark company in safe production.

In 2023, we continued our adherence to coordinating development and safety. Building on the "Year of Deepening Responsibility for Safe Production" and the arrangement of the "Special Action for Safe Production", we issued the *Implementation Plan of CSCEC for the Year of Strengthening Safe Management Campaign*, outlining 22 initiatives and 40 key points around six fronts for enhancements and aiming to comprehensively progress towards the Company's safety objectives.

Health and Safety of Suppliers

Our commitment to safe production management extends to suppliers. We oversee suppliers' efforts to establish robust safe production management systems and ensure that we fulfill safe production responsibilities for all employees. We have implemented a safety assessment system and a blacklist system to manage, supervise, and assess suppliers in areas such as risk management, safety inspections, emergency response, and education and training.

CSCEC's "1312" Safe Production Governance Model



"Behavioral Safety Star"

We have launched the "Behavioral Safety Star" campaign in our production subsidiaries. By distributing "Behavioral Safety Recognition Cards" to frontline workers and selecting "Behavioral Safety Stars", we have changed from lecturing to guiding, from punishing to rewarding, and from "passive safety" to "active safety."

"Three Iron Laws and Six Disciplines" Safety Code of Conduct

We have formulated and issued the *"Three Iron Laws and Six Disciplines" Safety Code of Conduct for Operators* and compiled the *Handbook of "Three Iron Laws and Six Disciplines" Safety Code of Conduct for Site Operators*, which cover three iron laws for 49 work types in five categories (civil construction, installation, machinery, decoration, and manufacturing) and six on-site disciplines for all work types to regulate the safe construction and operation behaviors of frontline operators.



CSCEC's Safety Objectives by the End of 2025:

- Improve the safe production responsibility system for all business lines, the whole industrial chain, and all employees;
- Improve the science-based safe production risk prevention and control system for all business lines and the whole industrial chain;
- Improve the standardized and professional safety supervision system for all business lines and the whole industrial chain, fully implement the management system by the corporate safety director, promote training for safety directors at subsidiaries of all levels, and increase the percentage of registered safety engineers to 19%;
- Utilize the "Intelligent Safety Platform of CSCEC" for real-time supervision of unsafe human behavior, the unsafe state of objects, environmental factors, and management measures, with a focus on continuous improvement;
- Improve the emergency rescue system for all business lines; and
- Improve the series of safe production governance standards for all business lines, lead the industry in improving safety governance, and promote the modernization of the safe production governance system and governance capacity.

¹¹ We actively engage with professional supervisory institution for safe production and integrate into social supervision through third-party evaluation and safety insurance assessment. We support and encourage capable subsidiaries to set up specialized management, technology, consulting, monitoring, and assessment institutions for safe production, and establish specialized and professional safety technology teams. In addition to internal management, we will further export corporate standards for safe production and safety assessment service products to society.

Intelligent Safety Management

We have developed the "Intelligent Safety Platform of CSCEC", which integrates development, operation, the monitoring of operation and maintenance and has evolved into a digital management platform supported by 94 subsections in eight modules.

8 Modules



Submodules of the Intelligent Safety Platform of CSCEC

Module Name	Features
Platform Cockpit	It performs multi-dimensional analysis and comprehensive display of data summarized from basic modules. Equipped with functions such as project maps, data analysis, and video monitoring, it provides strong support for the coordinated decision-making of safety management at all levels.
Emergency Command Center	It is bifurcated into two sections: meteorological warning and disaster response. The meteorological warning segment provides advance notice to frontline personnel at project departments before disasters. The disaster response section rapidly collects and disseminates information during and after a disaster and facilitates the cross-subsidiary allocation of emergency supplies and the sharing of social emergency resources.
Safety Lessons	It integrates industry information as well as the important information of the state, sectoral ministries and commissions on corporate safe production; safety management laws, regulations, and standards; and the Company's internal safety training resources. Serving as a comprehensive and interconnected communication platform, it enables subsidiaries at all levels to learn and benchmark.
Safety Index	We have independently developed a quantitative evaluation model for safety management performance. It automatically scrapes data on the fulfillment of safe production responsibilities of heads at all levels and functional departments of a subsidiary, the safe operation status of production subsidiaries, and the behavioral safety habits of operators. With just one click, the platform can generate safety indexes and evaluation reports for subsidiaries at all levels and individual employees.
System Construction	It visualizes databases of safety supervisors at all levels of organizations and collects essential information about full-time safety managers across the Group. It provides accurate information on the safety management system, which serves as a basis for recruitment, structure deployment, and pay adjustment.
Safety Inspections	It enhances the execution of the real "four without and two direct" ¹² inspections at all levels of subsidiaries with the project positioning and automatic navigation functions.
Highly Risky Projects	It encompasses the whole online management process of construction with major risks and comprehensively accesses various types of IoTs utilized by the Company such as those related to tower cranes and deep foundation pits, better enabling the visualization of operation parameters and instant risk warning.
Data Collection and Analysis	It performs real-time aggregation and automatic analysis of various types of management data. It also supports the customized export of local requirement forms.

In the Reporting Period, we enriched the platform's application ecosystem, optimized the modules, launched new functional sections such as Safety Education, Safety Acceptance, and Dangerous Operations, and fully optimized and upgraded modules such as Highly Risky Projects, Safety Index, and Data Dashboard. The platform has been applied at 9,910 production subsidiaries and has undergone trial operation in 194 construction projects overseas. It won first place in the Class-I Achievements of the Eighth Construction Enterprises' IT Progress Cases.

¹² "Four without and two direct" refers to inspections without formal or informal advance notice, listening to reports, or reception; directly conducted at the primary workplace and the site.

Special Safety Management

During the Reporting Period, we launched special safety management measures in the aspects of emergency management, technology bolstering safety, and occupational disease prevention, to comprehensively enhance the safety performance of the Company.



CSCEC's Special Safety Management

Emergency Management

- ▶ We have established a system of contingency plans that encompasses the comprehensive contingency plan, special contingency plans, and on-site handling plans.
- ▶ We have issued the revised *Comprehensive Contingency Plan for Production Safety Accidents* and produced and distributed the *First Aid Handbook for Personnel at Construction Site*. Among of our production subsidiaries, 100% participated in emergency drills.

Technology Bolstering Safety

- ▶ We expand safety management methods, improve safety management quality, and enhance intrinsic safety by promoting standardized safety and protection, IT-based safety management, and equipment management technology.
- ▶ We have led the compilation of national standards such as the *General Code for Safety and Occupational Health on Construction Site of Building and Municipal Engineering*, formulated internal illustrated brochures such as the *Standardization Illustrated Brochures for Safety Protection on Construction Sites*, and edited technical specifications and standards for prefabricated buildings. We replace traditional buildings with prefabricated buildings to reduce labor and lower personnel safety risks.
- ▶ We actively promote safety measures such as the ultra-high-rise low-level jacking mold safety system to reduce safety risks.

Occupational Disease Prevention

- ▶ We strictly observe the *Law of the People's Republic of China on the Prevention and Control of Occupational Diseases* and have formulated the *Management Measures for Occupational Health*, improving our occupational health and safety management system and supervision mechanism to regulate our occupational health management.
- ▶ We make every effort to prevent and control occupational diseases, including organizing physical examinations for operators before, during, and after their employment. We have also adopted many other safeguards for the prevention and control of occupational diseases:

1 Hazardous factor monitoring

- Identifying and controlling occupational health hazardous factors in the workplace; and
- Performing regular detection, evaluation, and management of occupational health hazards such as dust, noise, and operation in high temperature on construction sites, and taking targeted corrective measures.

2 Construction condition improvement

- Equipping employees on construction sites with appropriate labor protection equipment and instruct them to wear or use them correctly;
- Adopting measures such as sound insulation, muffling, vibration isolation, and noise reduction for noisy construction equipment, and separating noise sources from employees; and
- Regularly inspecting and maintaining the safety protection equipment.

3 Health file creation

- Properly mobilizing and settling persons with occupational health impairments in accordance with medical examination results, and including the examination results in the employees' occupational health guardianship files; and
- Providing regular occupational health examinations for employees before and during their employment and before leaving the office, and ensuring that the examinations cover all employees.

4 Occupational health training

- Disseminating laws and regulations on the prevention and control of occupational diseases and standardized work procedures among employees; and
- Hosting targeted training on occupational hazards to disseminate occupational health knowledge.

Safety Supervision and Inspection



At CSCEC, we continuously enhance our supervision and management for safe production, striving to eliminate hidden perils and unsafe factors and effectively enhance production conditions and the working environment for all personnel engaged in our operations.

Safety Supervision System

At CSCEC, we adopt a problem-oriented and result-oriented approach, thoroughly examining safety risks from all perspectives, with our management and control focusing on key areas, fields, subsidiaries, projects, periods, and segments. We have established a vertical hierarchical safety supervision mechanism that assigns responsibilities at each level. Under this mechanism, our subsidiaries conduct regular safe production supervision and inspection of their subordinates and production subsidiaries under their jurisdiction. Specifically, the directly superior enterprises conduct monthly comprehensive inspections of the production subsidiaries under their jurisdiction, while the production subsidiaries

organize and conduct daily safety inspections, weekly comprehensive safety inspections, and other special inspections. Throughout the Reporting Period, our safety risk control system operated smoothly, successfully keeping all risks under control.

Internal Safety Inspection

In 2023, we organized and conducted major inspection and rectification operations for machinery installation and demolition, limited space, large bridges, and tunnel construction in complex geological conditions. We completed a total of 316 project inspections and identified 1,651 risks and hidden perils. For projects not in compliance, four partial work suspension orders were issued. We followed up on the rectification results to ensure the risks and hidden perils were eliminated to the possible extent.

Risks and hidden perils identified in 2023 / **1,651**

Results of Internal Safety Inspections Organized and Conducted by the Company in 2022 and 2023

	2022	2023
Number of project inspections	246	316
Risks and hidden perils identified	3,522	1,651
Partial work suspension orders issued	7	4

External Safety Supervision

We welcome government regulators to conduct random inspections of on-site safety management at each production subsidiary from time to time and supervisory subsidiaries to be permanently stationed on-site to conduct special inspections and acceptance of the safe production conditions of highly risky projects and dangerous operations during the construction process. In the Reporting Period, we engaged professional third parties to verify the safe production conditions of key projects characterized by significant construction difficulties, high risk of mass fatalities and injuries, and complex operating environments. These efforts have significantly bolstered external supervision of our safe production practices.

Safety Culture and Training

At CSCEC, we are dedicated to promoting a safety culture within the Company and improving the safety production capacity of all employees. We launch campaigns and training on safe production concepts, knowledge, and skills to increase safety awareness among all employees and foster a positive atmosphere for safe production.

Safety Culture

We vigorously promote the safety culture of "I Am Safe, You Are Safe, Be Safe In CSCEC." We consistently enhance safety culture initiatives, introducing diverse elements to cultivate a safety-conscious environment. Our focus is on fostering motivation through an advanced safety brand and leading the industry with progressive safety concepts.

In the Reporting Period, we launched the "Safe Production Month" campaign for extensive motivation throughout the year. Through diversified safety events, we enhanced safety awareness and created a strong safety atmosphere.

Events during the Safe Production Month in 2022 and 2023

	2022	2023
Safety Consultation Day (sessions)	3,624	3,700
Safety observation and exchange at the provincial level and above (sessions)	197	200
Well-being Cup quiz (sessions)	1,936	2,168
Special safety training (sessions)	35,000	38,000
Emergency drills (sessions)	1,3000	15,000

Safety Awards in 2022 and 2023

	2022	2023
National Learning and Exchange Project for the Safety Production Standardization of Construction Projects by the China Construction Industry Association	176 projects	239 projects
ISA International Safety Award by the British Safety Council	133 projects	275 projects
Safety Science and Technology Progress Award by the China Association of Work Safety	16 projects	37 projects

Safety Training Management Requirements

Target Group	Safety Training and Requirements
Principal directors of enterprises at all levels, project managers, and dedicated safe production managers	<ul style="list-style-type: none"> Attend training and obtain a pass certificate in the safe production assessment
Safety directors	<ul style="list-style-type: none"> Shall hold a Certified Safety Engineer of China certificate
Specialized operators	<ul style="list-style-type: none"> Shall complete specialized training, obtain relevant qualification, and take appointment with the certificate
New employees	<ul style="list-style-type: none"> Apprenticeship is implemented for safety positions, and various forms of training and education on safe production are hosted, including training on safe production regulations, systems, and standards, as well as safe production quizzes and examinations. Familiarize themselves with safe production regulations and safe operation procedures, master the safe operation skills of the position, and know the emergency response measures for accidents Employees who have not passed safe production education and training shall not be allowed to take the position.
Operators	<ul style="list-style-type: none"> Attend no less than 72 learning hours of Level-3 safety education for admission into the site Attend specialized safety training for not less than 20 learning hours per year Attend daily pre-shift safety activities and maintain education records Attend the safety technical disclosure and maintain the disclosure records

Safety Training

At CSCEC, we have established a safety training model that covers all employees. Each employee and supplier operator are required to participate in at least one safe production training session annually, with training requirements tailored to their specific role. Various measures are implemented concurrently to guarantee that all employees possess the essential knowledge of safe production and continually enhance the safe production capacity of the entire workforce.

Safety Training for Personnel at All Levels

Target Group	Coverage	Main Training Formats
Enterprise managers (Chairpersons of the Board of Directors at all levels, General Managers, and heads of functional departments)	Annually, 100%	First Lesson of Safety, Safety Lectures by Principal Directors, research and studies of the Safe Production Committee, and studies of Primary Issues
Dedicated safety managers (including safety directors and suppliers' dedicated safety managers)	Quarterly, 100%	Safety instructors' competitions, safety engineers' training camps, certification and further education for three types of positions (principal directors of enterprises, project managers, and dedicated safe production managers), certification and further education for certified safety engineers
Managers of production subsidiaries (including project managers, plant and station directors, workshop directors, and heads of functional departments)	Monthly, 100%	Weekly safety meetings, monthly meetings of the Safety Leadership Group, and safety warning education
Operators (including suppliers' employees and specialized operators)	Weekly, 100%	Shift-based safety education, safety technical disclosure, and daily pre-shift chanting

Product Responsibility

Striving for the Company's strategic goal of "one creation and five aspects of strength," we have established a robust quality management system, empowering product quality through scientific and technological innovation. Focusing on management and technological innovation, we strengthen our corporate core competitiveness, aiming to establish ourselves as a world-class enterprise.



At CSCEC, we strictly observe such laws, regulations, and industry standards as the *Construction Law of the People's Republic of China*. We have released the *Management Measures of CSCEC for the Quality of Construction Enterprises* and other standardization guidelines for quality management, providing unified institutional compliance safeguards for project quality. We have established principles for the graded management and control of work quality. Additionally, we conduct regular assessments to identify quality risks in projects and continually update the list of identified risks. This serves as a foundation for projects to establish pre-control and prevention mechanisms, thus effectively preventing quality risks.

Quality Management

Guided by the ISO 9001 quality management system certification, we are committed to enhancing our organizational system, policy framework, and supervision system for quality management. We have integrated quality risk management and internal quality control requirements into our business management system and processes. Moreover, specific quality objectives are assigned to each level, ensuring product quality in every aspect. As of the end of the Reporting Period, 189 of our subsidiaries had obtained the third-party certification of the ISO 9001 quality management system.

Safety Training for Personnel at All Levels

Quality Management Decision-making System	<ul style="list-style-type: none"> CSCEC's subsidiaries must establish quality management committees and quality management leadership groups as the decision-making body. The legal representative of the enterprise shall act as the committee or the group's director. The system shall be kept running effectively.
Quality Assurance System	<ul style="list-style-type: none"> It ensures that the quality of the project is always under control during the construction process.
Quality Supervision System	<ul style="list-style-type: none"> It supervises and manages the operation of the quality management system of the enterprise and the project department, and guarantees the effective implementation of its supervision and monitoring functions. It ensures that the product meets the standard before delivery and acceptance.

Quality Planning and Objectives

For efficient quality management, we require all projects to set quality objectives and prepare a *Project Quality Management Plan* for detailed planning of project quality management. Each project must define management measures for special procedures and key processes in each segment of the project, and prepare targeted work instructions accordingly. Additionally, we establish annual quality objectives aligned with our medium- and long-term goals, breaking them down and assigning them at each level. Quality managers at projects under construction are required to sign the *Letter of Responsibility on Quality Management Objectives*, which delineates quantitative indicators, assessment mechanisms, rewards, and penalties for project quality management. In 2022 and 2023, 100% of personnel involved in projects under construction signed this letter.

Project Quality Management and Control

At CSCEC, we are dedicated to enhancing our quality management and control capabilities. With the corporate quality management system, engineering and technical quality management, and engineering quality management process, we conduct quality management assessment for our subsidiaries engaged in the construction business. Our focus remains on refining project quality management across all segments to effectively prevent quality risks and deliver safe, healthy, and high-quality products. Throughout the Reporting Period, all completed projects achieved a 100% passing rate, with no quality accidents reported above the general level.

In 2022, Covering 286 third-tier subsidiaries and involving 9,276 projects, with 87.8% rated A in the assessment.

In 2023, Covering 293 third-tier subsidiaries and involving 11,347 projects, with 91.2% rated A in the assessment.

CSCEC's Project Quality Management and Control Initiatives

Technological Guidance

- In design quality management and planning, based on comprehensive and sufficient information for design drawings, our designers systematically consider stakeholders' needs in the design.
- We integrate procurement into the design phase and carry out constructability analysis to ensure the quality of design documents and procured equipment and materials.
- To further ensure the feasibility of design drawings, we deploy design representatives to construction sites. Their role involves monitoring consistency between construction and design, addressing construction quality issues, and aiding in solving technical problems as they arise.

Process Management and Control

- We adhere to the core values of "Quality Assurance and Value Creation" and promote the standardization manual and drawing collection of corporate quality management to standardize the project quality management process and enhance project quality.
- We focus on the whole-process control characterized by "preventive control before the project, management and control during the project, and inspection after the project" and implement the quality responsibility labeling system. In this way, we achieve well-regulated quality behaviors as well as the process-based control and standardized management of engineering subsidiary quality. The quality of our verified delivered products 100% meets national specifications.

Assessment and Evaluation

- We conduct annual assessment and evaluation in accordance with the *Management Measures of CSCEC for the Quality of Construction Enterprises*, and the results of the assessment are linked to annual targets.

Case

Quality management assessment and evaluation by China Construction Eighth Engineering Division, a subsidiary of CSCEC

In 2022 and 2023, China Construction Eighth Engineering Division, a subsidiary of CSCEC, conducted quality management assessments and evaluations in accordance with the *Management Measures of CSCEC for the Quality of Construction Enterprises*. The evaluation delved into various quality management aspects of the direct management companies of projects, considering the corporate quality management system, engineering technical quality management, engineering quality process management, and the effects of corporate engineering quality management. The objectives were to assess the operation of the quality systems and mitigate potential quality risks, and the goal was to enhance the quality of projects within the CSCEC system. In 2022, the assessment covered a total of 20 third-tier subsidiaries encompassing a total of 2,273 subjects. In 2023, it covered a total of 20 third-tier subsidiaries encompassing a total of 2,201 subjects. All projects underwent self-assessment.

Innovation Empowerment

At CSCEC, we leverage scientific and technological innovation and adopt the strategy of the integrated innovation supported by the industry, academia, research, and application. We strengthen the innovation and R&D of key products to promote the continuous progress of construction technology. We guide the synergistic development of the industrial chain through the innovation chain, accelerate the mass-production, industrialization, and market release of scientific and technological achievements, and continue to promote the integration of construction industrialization and intelligence. Our focus lies in nurturing innovation talent and building an innovation base to empower the Company's development.

Increasing Research Capabilities

We maintain our efforts in improving our innovation management system. By building platforms for scientific and technological innovation, we continuously increase our R&D capabilities and the ability to commercialize scientific and technological achievements. Moreover, we adopt a science-based approach to govern and strategize the Company's research workforce, scientific and technological R&D investment, and R&D projects.

At CSCEC, we actively explore the fields of sustainable buildings and technological construction. We have expedited the reform of our science and technology system and promoted green and intelligent construction and industrialized building. As a result of our efforts, we have established the scientific and technological innovation platforms of CSCEC and a "2+6" system of scientific and technological innovation platforms¹³, driving our high-quality development in every business segment. In the Reporting Period, 26 of our subsidiaries were recognized as Specialized and Sophisticated Enterprises¹⁴, including two at the national level. We were also recognized by the SASAC as an Outstanding Contributor to Scientific and Technological Innovation. In the Reporting Period, we preliminarily completed the system of scientific and technological innovation platforms of CSCEC.

46.074 billion

In 2022, we invested RMB 49.753 billion in R&D.

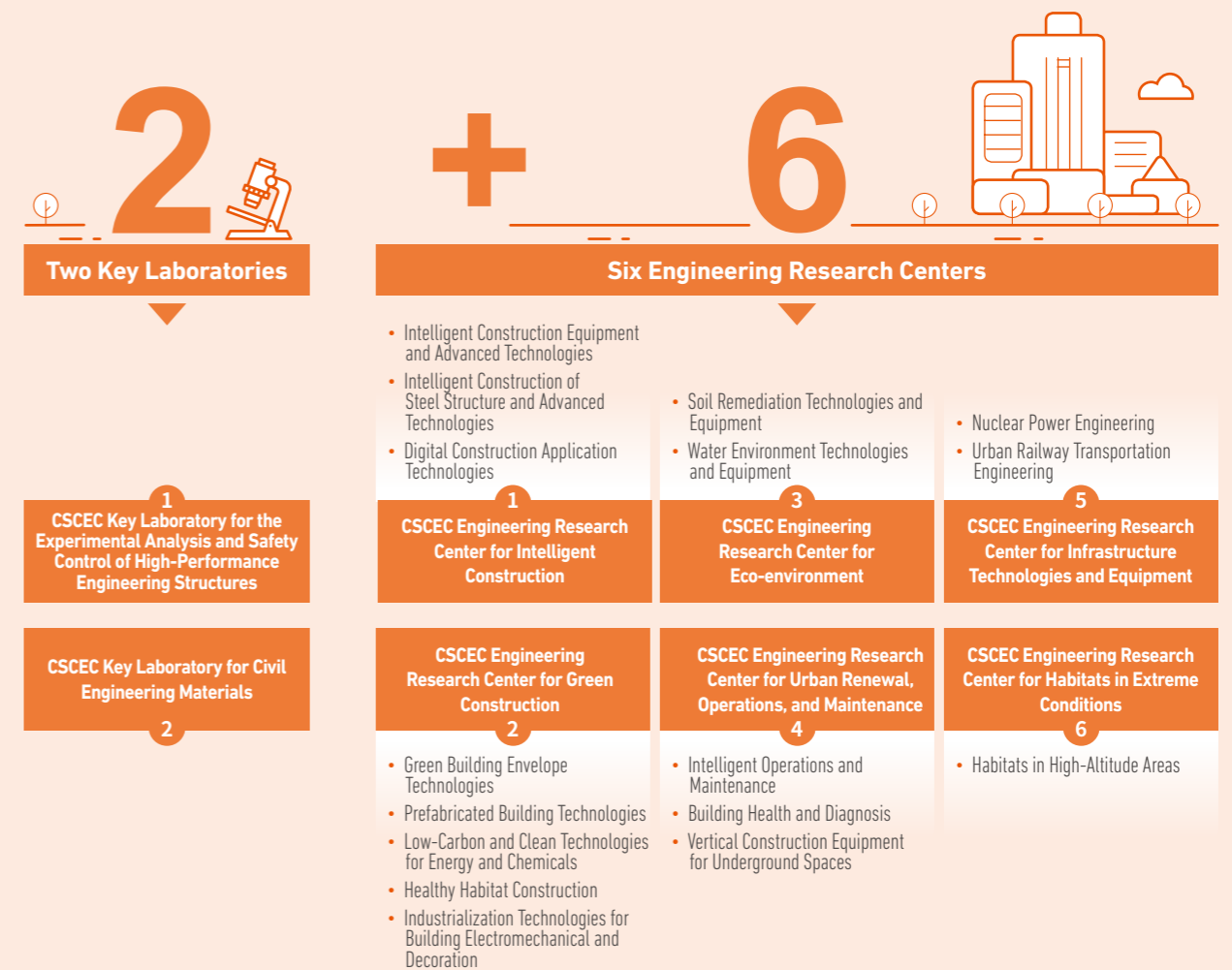
In 2023, we invested RMB 46.074 billion in R&D.

Our R&D investment intensity has remained above 2%.

¹³ It refers to two key laboratories and engineering research centers for six areas.

¹⁴ They refer to enterprises that are specialized, refined, differentiated, and innovative, and that focus on niche markets, boast strong innovation capacity, occupy a high market share, possess key core technologies, and present excellent quality and efficiency.

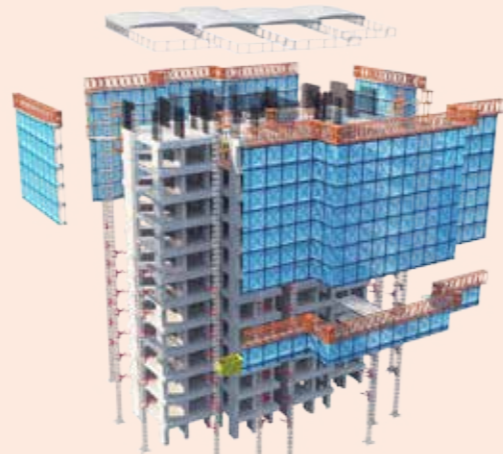
CSCEC "2+6" System of Scientific and Technological Innovation Platforms



The scientific and technological innovation platforms of CSCEC are aimed at promoting national strategies and industry changes and fostering the core technological competitiveness of the Company. In this course, we have located four basic objectives: identifying the direction of R&D, cultivating key technologies, building scientific and technological brands, and fostering emerging industries. As a result, we have promoted the improvement of our research capability and produced a number of scientific and technological innovations with competitive advantages in the industry.



Taikang Financial Center in Wuhan is using the new-generation air construction crane



Intelligent Construction Equipment Integrated Platform for High-rise Buildings (Tower Crane)

It is a series of ultra-high-rise construction equipment products developed by CSCEC Third Construction Bureau after more than ten years of R&D and continuous innovation and iteration. It provides comprehensive solutions for construction platforms for high-rise residential buildings to skyscraper structure over 500

meters high. The achievement was included in the *Catalog of Recommended Scientific and Technological Innovation Achievements of Central Enterprises (2020 Edition)* as the only achievement in the construction technology of house building engineering, and was covered by *The Pillars of a Great Power*, a program of China Central Television (CCTV).

Building on continuous technological R&D and accumulation of achievements, CSCEC Third Construction Bureau has researched on lightweight platform pivots and standardized components, and developed the fifth-generation (lightweight, generalized) building maker, the Universal Lightweight Integrated Platform. It shortens the installation cycle by 40% and reduces the overall cost by 35%. This product is known as "residential construction crane" for improving the work environment and efficiency in the construction of super high-rise residential buildings.

Digital and Intelligent Construction Management

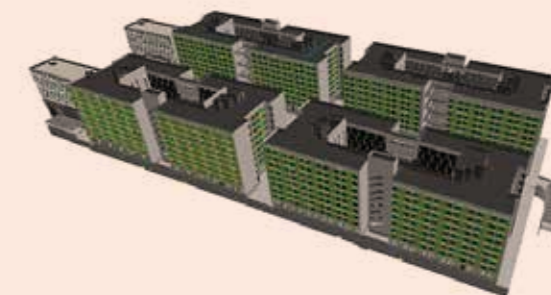
At CSCEC, we have adopted digital management approaches to regulate the Company's product quality control processes and standards and enhance effective and timely product quality management. We have a core management system and control platform in place and implement unified data standards and technical

standards. We guide and encourage our subsidiaries to integrate technologies such as BIM¹⁵, big data, mobile Internet, cloud computing, the Internet of Things (IoT), and artificial intelligence (AI) into quality control across the process, establishing an intelligent information application platform that addresses the needs of regular quality management, knowledge sharing, and data integration.

¹⁵ Building Information Modeling



Representative project based on CSCEC's Intelligent Construction Platform: Beijing Yizhuang Blue Collar Apartment built by China Construction Science & Technology, a subsidiary of CSCEC



CSCEC's Beijing Yizhuang Blue Collar Apartment Project is the highest and largest modular building complex in China, which is constructed using modular permanent buildings. The project relies on China Construction Science & Technology's intelligent construction platform for prefabricated buildings and utilizes intelligent construction technologies and equipment such as IoT, big data, cloud storage, and cloud computing. These tools provide support across the chain for the design, production, construction, operation, and maintenance of EPC general contracting for prefabricated buildings. The platform's free view allows users to directly browse the project view information from any angle, so as to effectively control the quality and completion of all segments of the project in real time. This function improves the quality and safety management of the project and facilitates efficient project performance.

In the project, prefabricated buildings account for 92%. The project has been recognized as an AAA demonstration project with an ultra-high portion of prefabricated modules in Beijing, won the first prize in the National Engineering Construction Industry BIM Competition, and become a key observation project of intelligent construction in Beijing.



Interface of the CSCEC Intelligent Construction Platform



Application process of the Intelligent Construction Platform

Innovative Construction Technologies

Guided by a commitment to independent R&D, we are forging ahead, charting paths for advancements in construction technologies. We have created a professional advanced technology system, represented by prefabricated building construction technology, green construction technology, and ultra-high-rise and large-

spanning construction technology. We have proactively driven technological innovations and applications, represented by urban rail transportation construction technology and urban road and bridge construction technology. Moreover, we have increased R&D efforts in marine engineering and super-large bridges and tunnels. We are actively deploying intelligent construction robots, initiating digital innovation projects, and promoting cutting-edge technological achievements, thus offering robust technological support to amplify the advantages of our core business in construction.



The Tianhe Airport T3 Terminal and Its Overpass project in Wuhan

Case

Industrialization and digitalization technologies for rebar engineering

Targeting the roughness and insufficiency of traditional rebar proofing technology, CSCEC Third Construction Bureau conducted the research and application of rebar BIM deepening design, intensive processing, IT-based management, and other technologies. It changed the traditional rebar operation mode, uniting the processes of rebar

sampling, processing, distribution, and tying with BIM technology and collaborative operation. The new mode improves the efficiency of rebar processing and raw materials and reduces the demand of workers as well as the backlog inventory of raw materials on site. The technology has been applied in multiple construction projects in Wuhan and surrounding areas in the form of centralized and single-project plants, promoting the effective utilization rate of raw materials to more than 99.5%.

The technology is applied to the parking building of the Tianhe Airport T3 Terminal and Its Overpass project, which has two underground floors, and the foundation form is an independent raft slab foundation. The project's rebar work adopts the model of intensive processing and distribution, with an application area of 11,040 m² for steel processing and distribution and a volume of 1,506 t of rebar work.

IPR Protection

At CSCEC, we actively align with national strategies for innovation-driven development and building an IPR power. We strictly abide by the Patent Law of the People's Republic of China and other pertinent laws and regulations. We have formulated the Management Measures of CSCEC for Scientific and Technological Achievements and other policies and have established a sound patent and copyright protection mechanism. We verify, publicize, commercialize, and reward achievements in patents. Moreover, we consolidate our presence of trademarks in both domestic and overseas markets, enhance the transformation of scientific and technological achievements, thus comprehensively improving the Company's IPR performance and effectively safeguarding CSCEC's rights and interests in brands and trademarks.

We offer training and promotion on trademarks, brands, copyrights, IPR concepts, and IPR risk, among other foundational elements. These programs are designed for departments overseeing IPR management and applicants

involved in innovation results. The primary objective is to increase employees' awareness of IPR risks during their business activities and to enhance their knowledge of IPR protection and passion for technological innovation. In 2023, we hosted five training sessions on IPR protection for an audience of 300.

68,519 piece

As of the end of the Reporting Period, we held 68,519 valid patents, including 6,177 invention patents and 61,865 utility model patents.

IPR Acquisition by CSCEC in 2022 and 2023

IPR Indicator	Patent Type	Unit	2022	2023
Patent applications	Total	piece	10,699	14,550
	Invention patents	piece	3,137	4,456
	Utility model patents	piece	7,562	9,494
Patent authorizations	Total	piece	8,291	12,276
	Invention patents	piece	857	1,965
	Utility model patents	piece	7,434	11,130
Trademark applications and authorizations	Trademark applications	piece	98	155
	Trademarks registered	piece	99	23
	Accumulative trademarks registered	piece	1,156	1,179

Customer Service

At CSCEC, we adhere to a development strategy oriented to customer needs. We have revised the Management Measures of CSCEC for Bidding and Tendering, requiring our subsidiaries to establish a sound customer satisfaction survey mechanism. We engage in effective communication with customers, employing a diversified approach, and prioritize customer privacy and information protection to create a stable and lasting trust relationship with them.

Customer Satisfaction

We continuously improve our customer service management system and enhance our services across the board. We prioritize the needs of our customers, maintaining a vigilant approach to customers' practical needs throughout every phase, from project bidding and preliminary preparation to construction and delivery. In this way, we provide comprehensive services spanning the entire lifecycle of the project.

Phase	Safeguard
Project design	<ul style="list-style-type: none"> Deploy experts and management teams to inspect construction sites.
Project construction	<ul style="list-style-type: none"> Conduct assessments of each project milestone. Promptly address any unexpected events.
After project delivery	<ul style="list-style-type: none"> Provide a detailed delivery quality assurance certificate along with detailed instructions for usage. Provide timely responses and guidance for customers' inquiries and concerns.

To enhance our customer service, we and our subsidiaries regularly conduct customer satisfaction surveys. These surveys comprehensively span the entire lifecycle of our products and are executed through various methods, including face-to-face visits, telephone interviews, and questionnaires, either randomly or with targeted customers. The insights derived from these surveys are instrumental in improving and enhancing our customer each year. Based on the results of satisfaction surveys, we conduct tracking, feedback, and improvement every year, along with follow-up customer surveys to continuously enhance our service quality.



To continuously enhance our data security management and system construction capacity, we set out control measures for data collection, transmission, storage, processing, and destruction, as well as the requirements for cybersecurity incident reporting and handling and contingency plan management. We also conduct regular cybersecurity emergency drills. Cybersecurity training requirements have been set for employees, which shall be observed by the Company's dispatching organizations and subsidiaries.

In 2022 and 2023, we engaged a third-party professional institution to assess and file for the classified protection of cybersecurity and to conduct external information security audits on the information systems of the Company's headquarters. Our headquarters completed the filing of classified protection of cybersecurity for newly-launched systems and obtained filing certificates. It also completed the assessment for the classified protection of operating systems and obtained third-party assessment reports. The coverage of Class-3 protection systems remained 100% in the annual assessment. Moreover, we encourage our subsidiaries conduct third-party assessments. Throughout the Reporting Period, we did not experience any major information security incidents, and there were no reported complaints regarding violations of customer privacy or loss of customer data.



Information Security and Privacy Protection

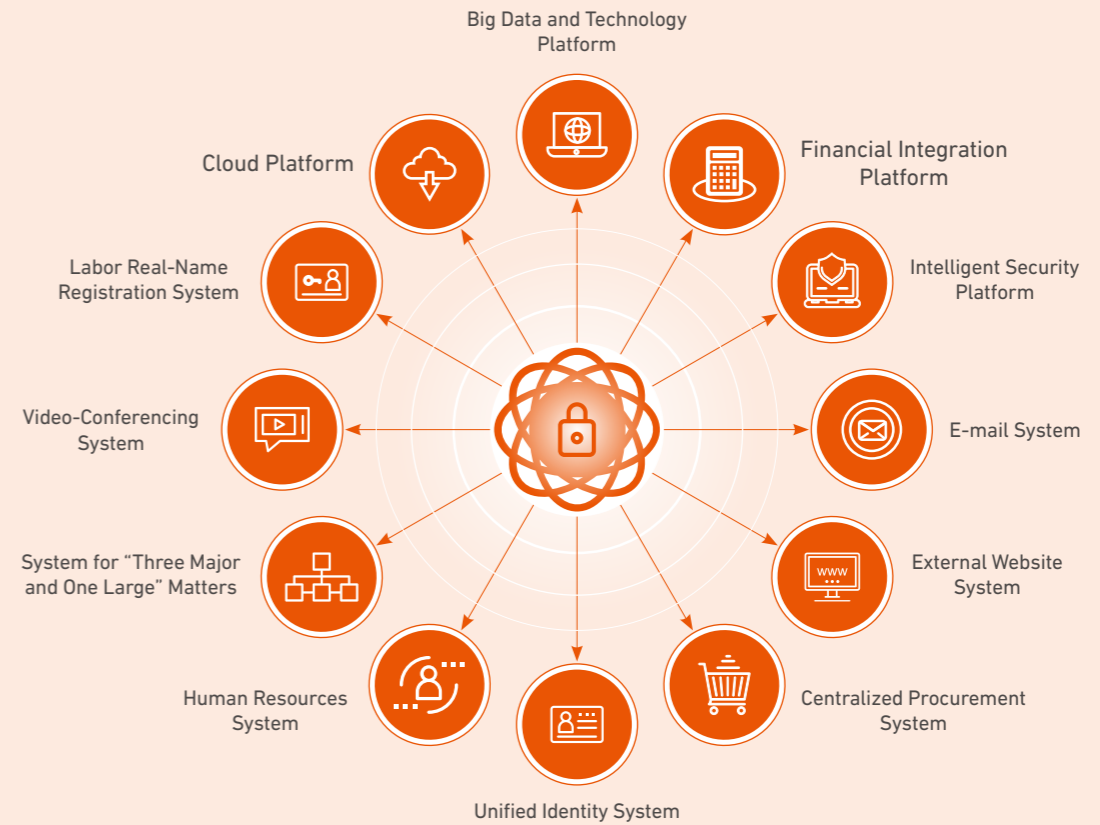
At CSCEC, we strictly comply with the basic principles of information security. Under the commitment to securing customer privacy, we have defined information security and cybersecurity governance responsibilities at the Board of Directors level. We have established the CSCEC Leadership Group on Digitalization and Cybersecurity, which is led by the Chairman of the Board of Directors. The Leadership Group comprehensively coordinates the Company's implementation of national laws, regulations, and policies on cybersecurity; researches and develops plans and initiatives for information security and privacy protection; receives regular progress reports on these initiatives, supervises their implementation, and provides guidance for their promotion.

2022

We conducted 12,463 customer satisfaction surveys at different levels and achieved a customer quality satisfaction rate of 95.94%, with a rectification completion rate of 100%.

2023

We conducted 14,238 customer satisfaction surveys at different levels and achieved a customer quality satisfaction rate of 95.86%, with a rectification completion rate of 100%.



Responsible Marketing

We continuously enhance our compliance management mechanism. We strictly abide by the *Advertising Law of the People's Republic of China*. We have developed the *Ten Prohibitions of CSCEC on Marketing* and established a marketing management system with clearly defined powers and responsibilities. Through these initiatives, we enhance the management and control of marketing risks in all aspects, standardize our marketing behaviors, and improve the quality of our marketing efforts.

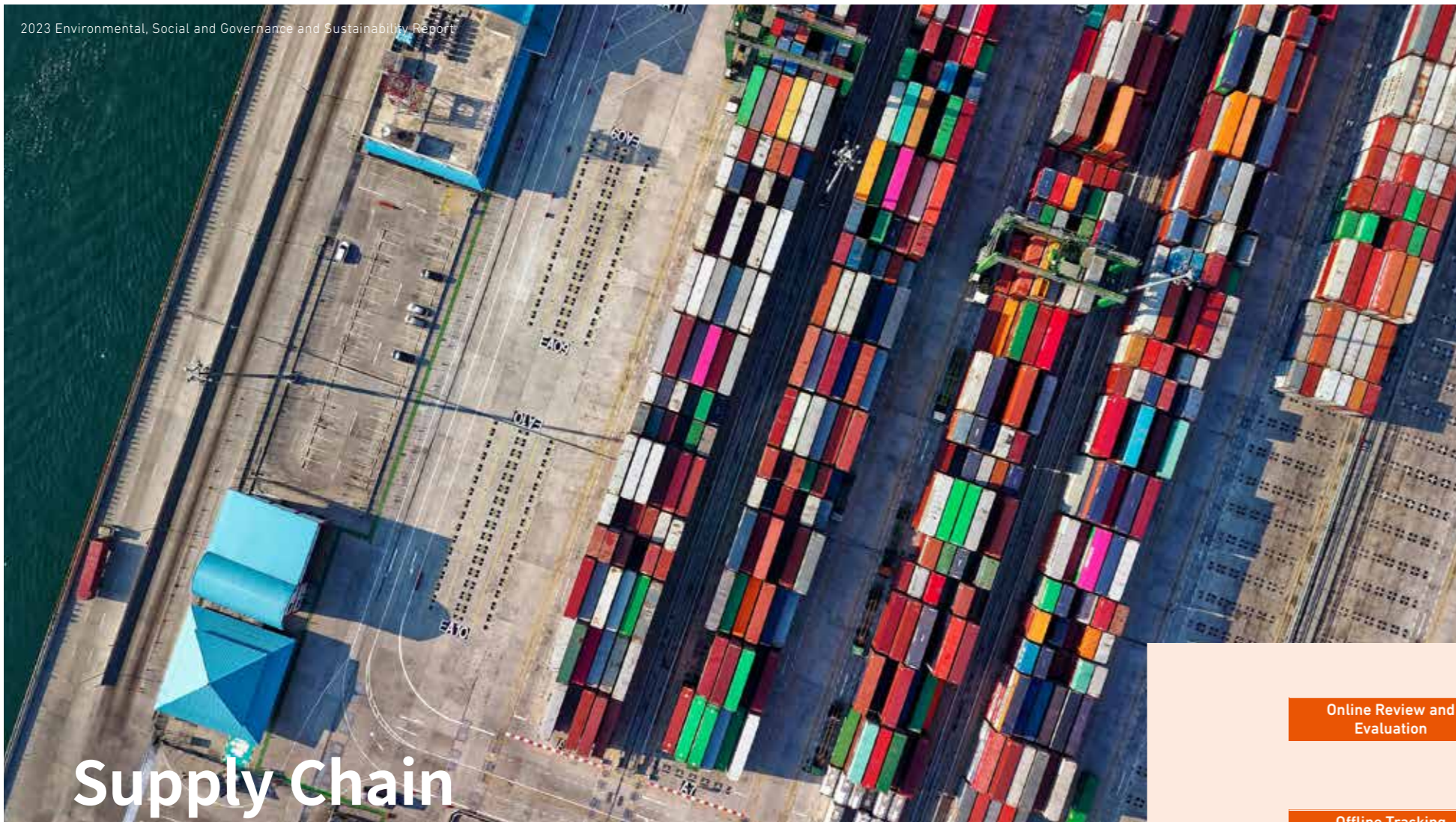
We impose rigorous review of advertisements and marketing collaterals. Moreover, we encourage our subsidiaries to sign the *Self-Discipline Convention of CSCEC on Marketing Behavior*. Through this commitment, we and our subsidiaries pledge to abstain from engaging in illegal and unethical practices, including deception, concealment, exaggeration, and embezzlement in the marketing process. We and our subsidiaries also commit to upholding basic principles and respecting red lines for marketing, and safeguarding the brand image and reputation of the Group. We actively promote responsible marketing training and education to continuously increase the awareness of marketing compliance and fair practices.

2022

We convened 2 meetings of marketing liaison staff, ensuring standardized daily communication in the marketing system and enhancing exchanges and collaboration among subsidiaries.

2023

We hosted 4 training sessions, providing over 1,500 main infrastructure managers with marketing training on relevant policies, regulations, and corporate management system.



Supply Chain Management

Supplier Management System

At CSCEC, we are committed to practicing modern corporate governance and optimizing our supply chain management system. Suppliers are valuable to an enterprise. Therefore, we fulfill our social responsibility in collaboration with our partners, establish a sustainable and responsible supply chain characterized by honesty, compliance, openness, transparency, green, and health, and accelerate the construction of a supply chain ecosystem characterized by mutual trust and win-win cooperation.

We prioritize the management of sub-contractors and sub-suppliers (hereinafter collectively referred to as "suppliers"), and we have established a supplier management system with the Project Performance Management Department of the headquarters responsible for overall coordination and the procurement management departments of subsidiaries at all levels responsible for concrete management. We insist on an approach safeguarded by policies and based on platforms, establish the Management Measures of CSCEC for Sub-supplier Resources and other policies in place and perform supplier management on the centralized procurement platform. We have set up a complete supplier management and review process, for the screening, admission, classification, and assessment of suppliers. Those who do not meet the standards will be penalized or ordered to be removed.

Screening and Admission

We require all prospective suppliers to possess the necessary quality, measurement, safety, environmental protection certifications, and business licenses mandated by competent state departments, the relevant industry, or the Company. We prioritize suppliers with a good business reputation, a sound system, and authoritative green building material certifications, and avoid cooperation with suppliers having a record of serious misbehavior.

Classification and Assessment

We categorize suppliers into six categories based on their qualification type and main business: material supply, equipment supply, professional sub-contracting, labor sub-contracting (construction labor), professional services, and leasing services. Meanwhile, we have established a sound regular assessment system and evaluation mechanism, in which we perform comprehensive assessment of suppliers both online and offline. Based on assessment results, suppliers are classified into categories such as excellent, qualified, and unqualified. We respect the interests of our suppliers and have established unblocked and efficient communication channels.

Supplier Assessment Methods

Online Review and Evaluation

- We adopt a real-time evaluation system characterized by "order-by-order review."
- We conduct at least one supplier assessment every year, which shall be a detailed, all-round assessment of all suppliers with whom we have cooperated during the year that evaluates corporate qualifications, business integrity, quality and services, and safe production.

Offline Tracking and Management

- **Before:** Before procurement, we conduct field inspection and agree on the handling plan and penalty mechanism for quality issues in the procurement contract.
- **During:** The construction subsidiary, the supervisor, and the constructor together accept the goods on site. Any unqualified materials, once identified, shall be immediately withdrawn from the site and be timely recorded.
- **After:** In the dynamic and regular assessments of suppliers, we focus on the assessment of compliance. And we strengthen the application of evaluation findings.

Penalty and Removal

We have created a list of suppliers with misbehavior. Those exhibiting subpar performance, including involvement in substandard product quality, safety quality accidents, dishonest performance, counterfeiting, or corruption, will face consequential measures such as a one-year ban on trading, a two-year ban on regional joint procurement, and even removal.

2022
Quality suppliers 722

2023
Quality suppliers 875

875

Number of Suppliers in 2022 and 2023

Region	2022	2023
Northeast China	4,243	4,001
North China	18,335	16,147
East China	42,135	40,452
Central China	19,793	17,243
South China	14,806	13,808
Southwestern China	13,386	12,952
Northwestern China	8,740	8,222
Total	121,438	112,825



The third meeting of the Leadership Group on Carbon Peaking and Carbon Neutrality of CSCEC and the Promotion Conference for the Coordinated Development of the Industrial Chain and the Supply Chain

Sustainable Supply Chain

At CSCEC, we are committed to a sustainable supply chain. We integrate ESG concepts into supply chain management to ensure that our supply chain meets high standards for quality, environment, compliance, health, and safety.

ESG Management Initiatives for the Supply Chain

Environment

- We have issued the *Notice on Releasing Requirements for Building a Green Supply Chain*, incorporating factors such as green, energy conservation, and environmental protection management systems into the supplier screening process. We have also improved our green procurement management system and established a pool of high-quality green suppliers committed to energy conservation and carbon reduction.
- In procurement bidding, we have introduced additional indicators for “dual carbon” based on application scenarios and bidding types.
- We collect evidence and conduct on-site inspections to verify partner suppliers’ green carbon certification status, progress in green factory construction, and their management of resource and energy conservation.
- Through supply-demand meetings and business collaboration, we have launched the “green, environmental protection, and low carbon” initiative for our partners. This initiative aims to strengthen our collaboration with environmentally friendly enterprises and promote the application of green products.

Social

- We have also established *Management Measures of CSCEC for Sub-supplier Resources* based on OHSMS 18000 and GB/T 28001-2011: Occupational Health and Safety Management Systems. Moreover, for intensive labor and professional labor contracting, we have developed the *Management Measures of CSCEC for Centralized Procurement of Labor and Professional Contracting*, incorporating labor management and occupational safety and health into our supplier selection and assessment system.

Governance

- The “Project Integrity Contract” is a necessary annex to our contracts to ensure that both parties perform the project contract in an efficient and clean manner.
- Suppliers found guilty of counterfeiting, bribery, bid collusion, or identified by national or local professional organizations for law violations, as well as those producing substandard products, are placed on the list of misbehaving suppliers and face removal.

Employee Development

Employee Management

At CSCEC, we firmly believe that employees are the core pillar of corporate value creation. We always follow the basic human resource management principal of “career, emotion and treatment” and “individual concern.” We strategically integrate talent development resources to ensure sharing the fruits of development with employees. We fully respect the legitimate rights and interests of our employees. Our commitment extends to building a fair and transparent remuneration and incentive system, providing a sound training platform, and creating an equitable and inclusive work environment to offer a solid guarantee for the high-quality development of the Company.

To further enhance our leadership and coordination of talent management and workforce building, we have established a Talent Leadership Group. It is in charge of policy research, strategic planning, macro-guidance, coordination, and harmonization of talent and workforce building. By establishing a complete system to protect the legitimate rights and interests of employees, we offer fair and competitive remuneration and incentives, innovate in and optimize our benefit safeguards, and enrich and empower our training courses. These efforts have demonstrated that we always place talent development at the core.

We uphold the principles of equality, diversity, and inclusion in employment. We strictly abide by the Labor Law of the People’s Republic of China and other pertinent laws and regulations. We have formulated policies such as the Guidelines for Open Recruitment, resolutely safeguarding the legitimate rights and interests of employees and candidates. We uphold the principles of fairness and impartiality in recruitment. During recruitment, training, and promotion, we never treat employees differently based on region, age, cultural background, or other factors. At the same time, we prohibit the recruitment of minors, eliminating illegal employment at source. Throughout the Reporting Period, no incidents of employment discrimination or illegal employment were found at CSCEC.

We adopt an orderly approach for recruitment to fully identify, introduce, and utilize talent. We actively grasp recruitment opportunities, select employees who meet the needs of the position and the characteristics of our corporate culture, and improve the match between employees and their position and the Company, thus effectively mitigating employee turnover. At the same time, we continuously conduct talent research and training, monitor the dynamics of talent management and business development needs, and enhance employee satisfaction and trust in the Company. Utilizing various methods and channels, including university-enterprise cooperation personnel training programs, internship initiatives, campus recruitment, and hiring experienced professionals, we actively attract and recruit talented individuals. As of the end of the Reporting Period, our workforce comprised 382,894 employees.



New Employees through Campus Recruitment in 2022 and 2023



CSCEC's Employee Composition

Indicator		Unit	2022	2023	
<p>Total number and categories of employees</p>	Total Number of Employees	Total Full-time Employees	person	382,492	382,894
	Full-time Employees by Gender	Male	person	302,136	309,540
		Female	person	80,356	73,354
	Full-time Employees by Age	Under 30	person	163,865	153,968
		30-50	person	187,414	198,738
		Over 50	person	31,213	30,188
	Full-time Employees by Rank	Senior management	person	17	17
			person	382,475	382,877

Employee Care Services

- Regular Care**
 - Employee health management boot camps are operated, and services such as employee medical examinations and illness assistance are provided.
 - Planning advice is provided and retirement ceremonies are organized when employees retire.
 - The Employee Family Day is hosted.
- Employee Service Facilities**
 - Facilities such as a employees' libraries, nursery rooms, outdoor laborers' stations, workers' villages, artisans' academy, and health stations have been built.
- Cultural and Entertainment Activities**
 - Sports and cultural associations have been established.
 - More than 30 workers' cultural and artistic groups have been assembled.
 - Themed calligraphy, painting, and photography exhibitions, employees' art festivals, Chinese New Year carnivals, collective birthday parties, and other activities are organized.

Employees' Rights and Interests

At CSCEC, we prioritize the well-being of our employees by providing salary safeguards and adhering to democratic management principles in accordance with the law. Our commitment is to foster a harmonious workplace for our employees.

Compensation and Benefits

We practically safeguard the legitimate rights and interests of our employees. In addition to ensuring basic social insurance, annual leave, and statutory holidays for our employees, we actively encourage member enterprises to establish supplementary medical insurance and enterprise annuity mechanisms, thereby enhancing benefits and security. With a robust salary compensation mechanism in place, we uphold the principle of fair compensation distribution, ensuring double alignment between performance and compensation and scientific compensation levels. We implement performance appraisals for all, and we are building a market-competitive compensation system for core employees, prioritizing the distribution of compensation to high-performance employees and key front-line positions. We implement medium- and long-term incentives, flexibly leveraging equity incentives for listed companies, dividend incentives for tech companies, and other methods to stimulate the enthusiasm and initiative of our key teams. Since the launch of restricted stock incentives in 2013, we have granted over 8,000 incentive offers.

Democratic Communication

We are dedicated to enhancing our democratic management mechanism, emphasizing democratic communication to foster good corporate governance and employee participation. We have established a sound open democratic management system with the Employees' Congress as the basic format. Moreover, we organize labor models' symposiums and build democratic communication platforms for our employees, where we actively listen to their suggestions and address their demands, safeguarding their rights to information, participation, expression, and supervision. In the Reporting Period, 100% of our subsidiaries at all levels had trade unions, and 100% of our employees were union members.

We always put employees' rights and interests first and conduct lawful, just, and timely employee consultations and labor dispute resolution. Meanwhile, during interviews and communication with employees, we attentively listen to their concerns and strive to meet their demands to promote the continuous progress of harmonious employee relationships and a democratic and open workplace.

Employee Care

We care the work-life balance of our employees and always strive to satisfy employees' needs. We have established a care service system with employees at the center. Various employee activities are continuously provided to enrich their spiritual and cultural lives and promote their work-life balance. Moreover, we actively facilitate the enhancement of the labor protection system and facilities for female workers, as we are always committed to alleviating and addressing labor difficulties resulting confronted by female workers and protecting their physical and mental health. Various campaigns have been conducted to support the labor protection of female workers and hosted the Symposium on the Action of Women's Power in Scientific and Technological Innovation at Central Enterprises to promote the all-round development of female employees in their careers.

Talent Development

At CSCEC, we integrate personnel training into the Company's development strategy, with a focus on key areas and the introduction of high-caliber experts in a targeted manner. We offer a wealth of training resources to support the enhancement of employees' professional skills and create a sound development platform with transparent promotion channels for our employees. In this way, we aim to nurture a high-caliber team, fostering the common progress of both employees and the Company.

Employee Training

We attach importance to the personalized growth and long-term development of our employees and thoroughly implement the *National Plan for Cadre Education and Training (2023-2027)* and other policies to provide talent support for corporate development.

We focus on building a sound training system and, aligned with the Company's business development needs, continue our efforts in enhancing our training brands. CSCEC is making efforts to establish and improve a comprehensive training system that closely aligns with the business development needs of the company. We continuously strengthen the construction of our training brand by creating training programs with distinctive characteristics of CSCEC, such as CSCEC Knowledge lectures, the Zhuxian instructors' lectures, internal instructors' competitions, and micro-

course competitions. Through these programs, the company aims to achieve effective dissemination of knowledge and experience. The CSCEC headquarters coordinates education and training. It has curated specialized a training system for key positions, encompassing roles such as middle and senior management, young entrepreneurs, business managers, international experts, project managers, and technicians. These initiatives aim to assist employees at various levels in adapting to the rapidly changing market environment and the evolving needs of corporate development. In 2022 and 2023, the Group led the organization of 275 training sessions under the theme of "Leadership, Professionalism, and Position Competence" for a total of 1,470,000 trainees. Our subsidiaries have conducted specialized training tailored to the specific needs of employees in various positions, such as vocational skills training, safety education training, and new business training. These initiatives have contributed to improving employees' capabilities across multiple dimensions and enhancing the overall effectiveness of the team.



Some of CSCEC's Training Courses in 2022 and 2023

Training Category	Course Details
Corporate governance	• Training on performance compliance and special training on the work of external directors of subsidiaries were organized and conducted for 8,583 trainees.
Areas such as engineering and business	• Model training on project management, special online training on key project positions, training on safety management of construction cranes and equipment, and training on infrastructure safety management were organized and conducted for over 60,000 employees.
Finance	• Advanced training for chief accountants of subsidiaries and special training for key financial positions were organized and conducted for 100% of key positions within the financial system.
New business areas ¹⁶	• 2 training sessions on urban operations and 1 on eco-environmental management were organized.
Young Entrepreneur Program ¹⁷	• 8 training sessions were organized. Through intensive training, practice sharing, and lectures by renowned experts, we promoted the all-round development of the trainees and nurtured future entrepreneurs with the spirit of innovation and leadership.

Employee Training at CSCEC in 2022 and 2023

Indicator	Unit	2022	2023
Investment in employee training	RMB 100 million	9.24	7.41
Number of trainees	person-times	Over 6 million	5.3442 million

¹⁶ New business areas refer to eco-environmental protection, digital agriculture, finance, asset operations, new infrastructure, new materials for the construction industry, and other new business lines.

¹⁷ The Young Entrepreneurs Training Program is designed for young managers who excel in key positions and present potential for development. According to the different levels of training targets, the program is divided into three categories: the Young Entrepreneurs' Incubation Camp, the Young Entrepreneurs' Growth Camp, and the Young Entrepreneurs' Enhancement Camp.

Talent Succession Planning

Guided by the core strategy of developing a quality workforce, we have introduced internal guiding plans such as the *Capacity and Competency Enhancement Program for Project Managers*, the *Guiding Opinions on Internal Talent Mobility Management*, and the *Guiding Opinions on Workforce Building for Design Institutes*. In these documents, we set out development methods and implementation initiatives for talent planning. We have undertaken comprehensive efforts to advance the Seven Key Talent Projects. These projects span talent management in various domains, including leadership talent, advanced talent, scientific and technological talent, young talent, international talent, and new business talent. Our commitment is to cultivate a workforce characterized by "strong leadership at the top, solid support in the middle, and all-round quality at the bottom." In 2023, we conducted a special talent survey to comprehend the current status of our workforce and provide data support and decision-making basis for the development of our talent system.

Leaders: We continue our efforts in the selection and appointment of leaders. To this end, we have developed policies such as the Q&A on the Management of Leading Officials at CSCEC and the Detailed Rules of CSCEC for the Implementation of Promoting the Adaptability of Leading Officials to Any Positions. In 2023, we conducted the Company's spring and autumn leaders' seminars for a total of 106 participants.

Advanced Talent: We have intensified our efforts in introducing and nurturing advanced talent, always aligning ourselves with the national demand. We have established the first academician expert workstation in Hong Kong and leadership groups and working groups for nurturing academicians and national masters.

We study and deploy plans and implementation initiatives for nurturing academicians and national masters, and increase the training of candidates and relevant resource investment to cultivate advance talent that meets the requirements of the times and the Company.

- We have achieved a major breakthrough in the national major talent project. We have introduced a national master of engineering survey and design, 4 academicians of the Academy of Engineering in flexible programs, and a winner of the Guanghua Engineering Science and Technology Prize, as well as additionally 9 experts entitled to special allowances and 12 provincial masters of engineering survey and design.
- We conduct regular selection of CSCEC Experts. We have 3 new chief experts and 14 experts in the technology R&D sequence of CSCEC, 4 new CSCEC chief masters and 13 masters, and 8 new experts in the new business sequence.
- We prioritize training highly skilled personnel. 2 of our employees have been selected for the second batch of the SASAC Training and Support Program for Craftsmen of the Nation at Central Enterprises. We have 8 new National Expert Technicians and a total of 41 state-level technical experts. Our employees have won the China Skill Award and gold medals in the World Skills Competition.
- Science and Technology Talent: We further clarify the Company's science and technology talent portrait, which encompasses science and technology researchers and developers, science and technology managers, technicians, surveyors and designers, experts in the industrialization of science and technology results, and innovative business development managers. We have established a pool of high-potential employees in various fields and developed a workforce extending to different disciplines and levels.
- Young Talent: We are committed to establishing a sound growth system for introducing, nurturing, and appointing talented

Case

The First CSCEC Youth Designer Competition of "Building a Certificate for the Future"

From 2022 to 2023, we hosted "Constructing the Future" CSCEC's first Young Designers' Competition, which was our first comprehensive professional competition in the survey and design segment. Under the theme of "Constructing Good Times and Pursuing Urban-Rural Development," the competition was centered on original design, focused on green, low-carbon, and sustainable urban-rural development. It gathered top designers in various disciplines of the survey and design segment, aiming to facilitate young designers to show their talent and excel. Since its launch, the competition was enthusiastically received by young designers from five disciplines, namely,

architectural design, architectural technology, municipal transportation, survey and geotechnical design, and innovative technology. The competition set up an expert committee, which had Academician Zhang Jinqu as the honorary director and was led by national engineering survey and design masters and CSCEC chief masters and composed of masters and experts in various fields of survey and design business. This committee was responsible for formulating the competition topics and evaluation criteria. In the final round, national engineering survey and design masters, CSCEC chief masters and masters, provincial engineering survey and design masters, and other well-known experts in the industry were invited to form the final evaluation jury for the finals. The jury provided on-site professional reviews on the finalists and selected gold, silver, and bronze medalists. Among them, the gold medalists were included in the Company's programs for young top designers in the design sequence and special training. Subsequently, we intend to launch training programs for young designers at an appropriate time for follow-up training.

young people across the chain to help young employees grow. We thoroughly progress the "Constructing the Future" competence enhancement program for young people, and we have hosted over 3,300 sessions of the "CSCEC Talks by Young People at CSCEC" promotion program. Moreover, we have hosted 46 Open Days relying on 216 competence enhancement bases for young people. We organize the Young Designers' Competition, which adheres to the idea of "cultivating talent through competitions." The event continuously enhances the original design capability and technological innovation of our survey and design employees. In addition, we collaborate with the School of Social Sciences of Tsinghua University. Our partnerships extend to organizing and launching the "Constructing the Future, Guarding the Youth" initiative, conducting a survey for 117,500 young people, and putting continued efforts in building enterprises and projects that favor the development of young people.

International Talent: We have developed several internal policies, including the Management Measures for the *Evaluation of Overseas Employees (for Trial Implementation)*, the *Management Measures for the Arrangement and Appointment of Returned Overseas Employees (for Trial Implementation)*, and the *Guiding Opinions on the Remuneration Incentives for Overseas Employees*. We have also established a mechanism to guarantee the mobility of overseas employees and set up remuneration incentives for overseas employees. All of these efforts are aimed at further exerting the vital role of overseas platforms in training managers, thereby further progressing the team of overseas managers.

New Business Talent: We actively train and introduce scarce professionals in "dual carbon" and digitalization to facilitate breakthroughs and transition in innovative business.

Talent Management Team: We have hosted a special online course for employees in the human resources system and

training sessions for the professional enhancement of the human resources sequence for 17,240 trainees, covering 100% employees in the human resources sequence.

Employee Promotion

We have developed the *Management Provisions of CSCEC on Title Accreditation* for internal implementation and developed a title system with reasonable settings, science-based assessment, standardized management, coordinated operation, and comprehensive services. We have also set up a Title Accreditation Committee at the management level, and we organize regular title accreditation and continuously improve the management measures for title accreditation, thus continually expanding opportunities for professionals and technicians within our organization. Moreover, leveraging our advantages in a broad and resourceful platform, we actively advance the reform of the talent evaluation mechanism by category. This involves establishing a targeted evaluation mechanism, promoting employees at all levels openly and fairly, and building comprehensive career development paths for our employees. In this way, we encourage individuals to maximize their value in tandem with the Company's objectives.

We attach importance to employee development by professional sequence. To this end, we have established a comprehensive and tiered professional sequence and rank system. The system consists of professional sequences of science and technology R&D, engineering design, and investment management. The categorization is based on factors such as complexity, business characteristics, and professional requirements. Bearing in mind the patterns of employee development within each professional sequence, we have created rich rank development channels. This approach ensures unimpeded career growth paths for employees, facilitating sustainable growth and development across various roles within the organization.

Joint Efforts in Community Development

Children at the SHINING STARS public welfare school in Sri Lanka receive donated books



At CSCEC, we are driven by our commitment to create a positive impact for the community. We have established and maintained open, transparent, and long-lasting communication channels, contributing to rural revitalization and collaborating extensively with community stakeholders to promote prosperity and sustainable development in the community.

Rural Revitalization

At CSCEC, we focus on the national "rural revitalization" strategy. To this end, we have formulated several internal policies, including the *Strategic Plan of CSCEC During the 14th Five-Year Plan Period*, the *List of Paired Assistance and Partner Assistance Tasks*, and the *Cultural Integration Manual of CSCEC*. Leveraging our professional advantages, we devote ourselves to infrastructure construction in rural areas and contribute to the modernization and all-round revitalization of agriculture and rural areas, exemplifying our commitment to social responsibility.

In 2022 and 2023, our achievements in "revitalization in five areas" include:

- Revitalization of industry:** We took full advantage of our resources in the construction industry. We donated RMB 81.525 million in industry support funds to 23 industry support projects, including agricultural science and technology demonstration bases, water plants, and container houses. Through these efforts, we contribute to the revitalization local businesses and lay the foundation for revitalizing the rural economy.
- Revitalization of talent:** With the help of colleges and universities, we collaborated with three countries in Gansu Province to conduct 47 special training sessions on crane driving and for township and town cadres. In these programs, we trained 2,185 primary-level cadres, 420 entrepreneurship models, and 1,215 professional technicians, so as to lay the foundation of talent for the development of agriculture and rural areas.
- Revitalization of culture:** We built 20 village-level cultural practice demonstration sites in three counties in Gansu Province and constructed rural libraries, cultural squares, and other cultural facilities. Moreover, we created county songs such as the *Splendid Kangle* and *Homesickness Like the Flowing Tingshui River* and hosted training on various cultural topics. Through these efforts, we have vigorously carried forward traditional culture and socialist core values.
- Revitalization of ecosystems:** We completed the tourism development planning for Zhuoni County and the planning for the national 5A tourist scenic area of Dayugou. We progress green construction projects such as village environment improvement, rural garbage and sewage control, and the modernization of rural customs to vigorously improve the rural habitat.
- Revitalization of organizations:** We launched paired construction with 48 villages (towns) across the country. We established 13 rural collective economy projects including the production project of pre-cooked food in Tongren Village, Changting, and provided order assistance for 70 assisted workshops, including the Shangzhuotengda Workshop in Zhuoni County. Through these initiatives, we help local communities improve their rural governance systems, which combine self-governance, the rule of law, and the rule of virtue.



CSCEC volunteers participating in the restoration of UN cultural heritage

Community Engagement

At CSCES, we have forged a volunteering brand, "Constructing the Future." In 2023, we released a global volunteer service map. More than 1,800 volunteer organizations and 120,000 CSCEC young volunteers conducted more than 10,000 "Constructing the Future" volunteering activities, totaling more than 110,000 hours, focusing on helping the elderly and people with disabilities, flood control and disaster relief, and overseas public welfare. Specifically, we sent more than 12,000 volunteers for flood relief. They took part in more than 150 flood relief tasks, helping to speed up the restoration of production and living order in various places, and demonstrating the commitment of a centralized enterprise. In 2023, we received one award in the National "Four 100" Models, two Outstanding Organization Awards and three Outstanding Individual Awards in the 14th China Young Volunteer Awards, and four awards in the "Five 100" Awards of Beijing.

In our collaborative efforts within the BRI, we actively integrate into local development. Guided by the core value of "Constructing Happiness," we have launched campaigns such as the Constructing Happiness Library and the UP WE BUILD program, hosted the thematic campaign for the 10th anniversary of the BRI, organized communications themed "Constructing a Better World" in 25 countries, and published books in Chinese and English, including the *Constructing the Silk Road* annual journal and *Buildings Talk*, totaling 200,000 words. Additionally, we have produced more than 150 convergence media products, including the large documentary *Constructing Together* and the feature movie *New Journey on the Silk Road*, which have received 220 million views on the Internet. These efforts have showcased our identity as a warmhearted and caring brand with a rich cultural heritage and strengthened people-to-people exchanges and mutual trust with BRI countries.

Total inputs in 2023: **Over 158 million** RMB

In 2023, we provided non-reimbursable assistance to over 30 regions, including those under targeted assistance (Kangle, Kang, and Zhuoni Counties in Gansu Province) and those under paired assistance (Changting County in Fujian Province), benefiting a total of 317,175 people with a total investment of RMB 158 million.

	2022	2023
Number of beneficiaries	113,655 people	317,175 people
Funds	RMB 157,830,200	RMB 154,960,000
Value of supplies	RMB 3,526,000	RMB 3,539,000
Total investment	RMB 161,335,800	RMB 158,499,000



conducted more than 240 sessions of training, exchanges, and internship and 292 skill competitions for more than 20,000 trainees and 6,000 local young people, boosting the local construction industry and economy.

Case

CSCEC launches the UP WE BUILD

With the vision of “empowering talent in innovation and growth, building a win-win future for the construction industry,” we integrate our quality resources around the world to create platforms for talent in the construction industry in the countries where we operate. We have implemented the UP WE BUILD program in ten countries, including the United Arab Emirates and Sri Lanka, where we offer mentoring, campus activities, seminars, and exchanges in accordance with the principle of “country-specific approaches tailored for local conditions.” We have

Community Investment

Upholding the principles of extensive consultation, joint contribution, and shared benefits, we adhere to the goals of high standards, sustainability, and benefiting the people. We continue to make community investments in charity, education, culture, and environmental protection, employee protection, health, and sports, actively fulfilling our social responsibility.

Friendship between China and Africa in a drawing



Case

Addressing the problem of difficult access to primary and secondary schools for students

In 2022 and 2023, our subsidiary China Construction Science and Industry constructed Butuka Academy, a China-Papua New Guinea (PNG) friendship School, in PNG. Butuka Academy is the largest and most advanced school with the most functions in the South Pacific Islands, which has greatly improved the schooling conditions and the teaching environment in the area. The project has addressed the educational issue of more than 3,000 primary and secondary school students and served as a bridge of cultural exchanges between China and PNG.

CSCEC's Community Investment and Public Welfare Inputs in 2022 and 2023

	2022	2023	
Community Investment	Total amount of outward donations and public welfare inputs	RMB 218.820 million	RMB 159.899 million
	Education	RMB 13.75 million	RMB 9.98 million
	Culture	RMB 3.41 million	RMB 1.4 million
Public Welfare Programs	Number of volunteer organizations	Over 1,600	Over 1,800
	Number of volunteers	Over 110,000 people	Over 120,000 people
	Number of volunteering activities	Over 13,000 sessions	Over 10,000 sessions
	Total hours of volunteering	Over 180,000 hours	Over 110,000 hours



Governance

**Promoting
Robustness with
Integrity**

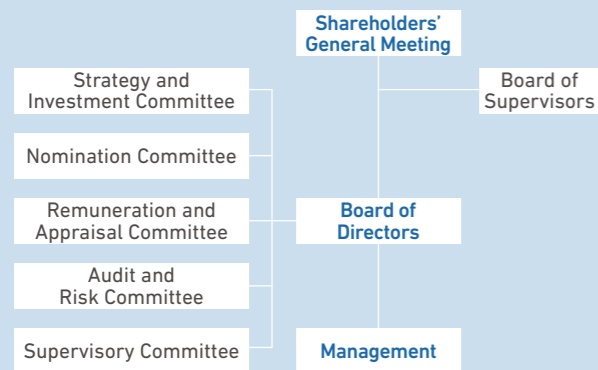
At CSCEC, we have established a corporate governance structure characterized by a clear division of powers and responsibilities and consistently pursued a science-based, rational, and highly efficient Board of Directors. We have also set up a sound risk management system, released the integrity cultural philosophy of "Upholding Morality for High-quality Construction, Practicing Integrity as a Solid Foundation," and always regarded "Honest and Accountable, Clean and Broad-minded" as our fundamental principles. Our continuous efforts concentrate on consolidating the outcomes of our integrity culture, promoting business ethics practices, and cultivating our employees' moral character, thus striving for the stable and healthy development of the Company in the long run.

Corporate Governance

Aiming to “create a board that matches a world-class enterprise,” we strengthen the top-level design of the Board of Directors and optimize its working mechanism to continuously strengthen the performance service guarantee for directors. There are five special committees under the Board, namely, the Strategy and Investment Committee, the Nomination Committee, the Remuneration and Appraisal Committee, the Audit and Risk Committee, and the Supervisory Committee.

The Company’s Board of Supervisors supervised and inspected the performance of directors and senior management personnel, thus safeguarding the legitimate rights and interests of the Company and shareholders. The Company’s Board of Directors and its special committees and the Board of Supervisors constitute a sound corporate governance mechanism in compliance with the law, further reinforcing the foundation for the Company’s robust operations and boosting the Company’s high-quality development.

CSCEC’s listed company governance structure



CSCEC’s listed company governance structure

	2022	2022
Number of meetings held	29	33
Number of proposals deliberated	84	65

Validity of the Board of Directors

In accordance with the *Company Law of the People’s Republic of China* and other pertinent regulations, we have developed the *Articles of Association of CSCEC*, the *Rules of Procedure of the Board of Directors of CSCEC*, and other policies. They delineate the powers and responsibilities of each governance body and set out the procedures for nomination, appointment, re-election, and removal of directors and executives. With these efforts, we continuously improve our modern enterprise system with Chinese characteristics and regulate the governance of the listed company.

We continuously enhance the Board of Directors and ensure the efficacy of the Board’s functions, facilitating the rule-based operation of the Board. In the Reporting Period, the Board of Directors comprised seven directors, including three non-independent directors and four independent directors, ensuring science-based and effective decision-making of the Board.

Positions of CSCEC’s Directors in the Reporting Period

Director	Title	Age	Commencement Date of the Term of Office	Professional Background			Special Committees				
				Environmental Dimension	Social Dimension	Governance Dimension	Strategy and Investment Committee	Nomination Committee	Remuneration and Appraisal Committee	Audit and Risk Committee	Supervisory Committee
Zheng Xuexuan	Chairman	57	2021-11-26	Sustainable development	Human resources development, compensation and benefits, safe production, public welfare and philanthropy	Strategic planning, investment decision-making	Director	Director	/	/	/
Zhang Zhaoxiang	Director and President	60	2020-12-07	Sustainable development	Human resources development, compensation and benefits, safe production, public welfare and philanthropy	Strategic planning	Member	Member	/	/	/
Shan Guangxiu	Director	53	2023-08-21	Sustainable development	Human resources development	Strategic planning, corporate reform	Member	Member	/	/	/
Ma Wangjun	Independent Director	59	2023-05-19	Sustainable development and green finance	Public welfare and philanthropy	Strategic planning, investment decision-making, financial management, risk management	Member	Member	Director	Member	Member
Jia Chen	Independent Director	68	2018-01-09	Sustainable development and green finance	Public welfare and philanthropy	Strategic planning, financial management, risk management	Member	Member	Member	Director	Director
Sun Chengming	Independent Director	64	2021-05-13	Sustainable development	Safe production, public welfare and philanthropy	Strategic planning	Member	Member	Member	Member	Member
Li Ping	Independent Director	70	2021-05-13	Sustainable development and green finance	Technological R&D, public welfare and philanthropy	Strategic planning, dissemination and communication	Member	Member	Member	Member	Member

Independence of the Board of Directors

At CSCEC, we have implemented a sound system of independent directors. We have developed the *Rules of CSCEC on the Work of Independent Directors*, which outline specific requirements for the qualifications and the nomination, election, and replacement processes of independent directors; the responsibilities of independent directors; conditions under which independent directors can express independent opinions; and the training of independent directors. These rules aim to ensure that the selection and appointment of independent directors are based on good faith and impartiality and to enhance the Board's ability to develop strategies, make decisions, and mitigate risks. We pay special attention to the independence review of independent directors. It is imperative that there be no direct or indirect interest between an independent director and the Company, its major shareholders, de facto controllers, or other relations that may affect the independent director in making independent and objective judgements. This requirement ensures that the decisions made by the Board of Directors align with the overall interests of the Company and its shareholders.

In the Reporting Period, we separated the powers and responsibilities of the Chairman and the President in accordance with the *Rules of Procedure of CSCEC of the General Manager's Working Conference*. We adhered to a membership structure with a majority of independent directors on the Board. As of the end of the Reporting Period, the Board of Directors comprised three non-independent directors and four independent directors. The three non-independent directors solely served in directorial roles at China State Construction, and the four independent directors were all full-time and each served as a director at no more than three companies (including the Company).

Diversity on the Board of Directors

We always pursue a diversified and professional Board of Directors. Director nominees must possess a minimum of five years' experience in law, economics, finance, management, or other areas necessary for fulfilling their duties as independent directors. This requirement is designed to ensure that the Board of Directors' resolutions are comprehensive and science-based. In the Reporting Period, each of our four independent directors came from different business areas, showcasing diversified professional competence and experience. In 2023, the Board included a female director and an accounting expert who used to serve at the Ministry of Finance, effectively facilitating the diversity and efficacy of the Board's decision-making and the Company's robust development.

Compliance and Risk Management

We thoroughly implement the requirements of the *Measures for the Compliance Management of Central Enterprises*. We have completed the Year of Enhancing Compliance Management and the Year of Deepening Compliance Management with high quality. We resolutely improve the "one leading official responsibility system" and reinforce the "three lines of defense" working mechanism for compliance management. As a result, we have significantly enhanced our systematic and integrated compliance management as well as our business compliance capacity and have been rated A in the SASAC's first round of compliance management efficacy evaluation. More than 300,000 of our employees have signed the Compliance Commitment, and consolidation has been made to the "three lines of defense" working mechanism of the rule of law, compliance, and risk management.

At CSCEC, we prioritize risk management and internal control. We take the Three in One development efforts for the rule of law, compliance, and risk management as a priority and focus in the three-year reform of SOEs, the creation of a world-class enterprise, and the promotion of risk management. We have developed the *Regulations of CSCEC on Risk Management*, the *Management Measures of CSCEC for Risk Assessment*, and other policies. These efforts optimize organizational safeguards and fortify the management and control hub for risk management. Risk management responsibilities at all levels have been defined, and orderly risk management has been facilitated. We have formulated the *Management Regulations of CSCEC on Related Party Transactions* to set out the process of related party transactions and ensure that they are fair and in compliance with the law.

Audit and Risk Committee of the Company's Board of Directors

Audit and Risk Committee of the Company's Board of Directors	It is the Company's supervisory body for risk management and serves as the "third line of defense," responsible for supervising the development and operation of the Three in One management system for the rule of law, compliance, and risk, as well as deliberating the Company's basic management system for the rule of law, compliance, and risk and annual work reports.
Risk and Compliance Management Committee of the Company	It is the Company's centralized risk management body, with its office set in the Legal Affairs Department. It serves as the "second line of defense," responsible for establishing and improving the risk management system in accordance with the Board of Directors' decisions and coordinating with several business departments to identify, evaluate, monitor, and resolve relevant risks.
Headquarters' Business and Functional Departments and Subsidiaries	They bear the direct responsibility for risk management in their subsidiary and serve as the "first line of defense," responsible for establishing risk management systems and teams in their functional purview or subsidiary and taking management actions such as risk identification, assessment, monitoring, and handling.

We have established an internal audit mechanism, which is directly led by the Board of Directors, with the chairpersons of the second- and third-tier subsidiaries in charge of auditing at their enterprises. In addition, we continue to strengthen the staffing of chief auditors, now with 40 chief auditors at all levels of subsidiaries. We promote changes in economic responsibility auditing and for the first time pilot the determination of responsibility for issues in economic responsibility audit reports, defining direct responsibility and leadership responsibility for disclosure issues. We also coordinate with the disciplinary inspection and supervision department and the organization and personnel department to form a supervision synergy and improve the efficacy of supervision. In 2022 and 2023, we performed audit supervision focusing on key areas of our main responsibilities and business and systematically completed a total of 1,665 and 2,184 audit projects. We convened a total of 13 meetings of the Audit Leadership Group, where 49 motions were deliberated. Among the motions, 34 were reported to the Meeting of the Party Leadership Group, and 42 to the Board of Directors and its Audit and Risk Committee.

We prioritize preventing and resolving major risks and conduct annual assessments of the Company's major risks. Aligned with the Company's strategic objectives, we thoroughly identify and analyze major risks and hidden dangers that may affect high-quality development. Based on the analysis results, we formulate targeted risk prevention and control plans and facilitate their implementation to ensure that no systemic risks occur. We vigorously shape a positive risk management culture. Risk management has been incorporated as an assessment indicator into the annual business performance assessment or business system of enterprises and risk management departments at all levels. Through these efforts, we have integrated the development of a risk management culture into the entire process of corporate culture formation and enhanced the philosophy of "business management necessitates risk management." We insist on conducting risk management promotion and learning through various channels and forms, and intensifying risk training for managers, employees in key position holders, and new employees. These initiatives enhance the ability of employees in key positions to manage risks and increase risk awareness among all employees.

CSCEC's Compliance and Risk Management Training

2022	2023
<ul style="list-style-type: none"> We organized over 1,100 risk managers from our headquarters and subsidiaries at all levels to participate in the "Accelerating the Construction of World-Class Enterprises" online training program on risk prevention and control hosted by state-owned asset regulators. The training program consisted of 11 courses, covering topics such as overseas operations, debt risks, and practical cases. 	<ul style="list-style-type: none"> We conducted the first training course for chief compliance officers to perform their duties. We also convened compliance debriefings and held joint meetings to enhance employees' compliance management ability. We organized thematic cultural events such as compliance quizzes, compliance culture promotion in projects, and compliance management exchange meetings. We conducted more than 5,600 compliance training sessions for more than 10,000 projects under construction and more than 230,000 primary-level managers, with a cumulative total of nearly 400,000 participants. These efforts continuously enhanced the Company's compliance culture brand and were extensively covered by many central media outlets, including the <i>People's Daily</i>, China.com, and Legaldaily.com.cn.

We continue the enhancement of our joint prevention and control management system for public opinion. To facilitate quick detection, study, response, and elimination of public opinion events, we have established a working mechanism for information reporting and rapid response and launched risk screening and rectification. We make full use of the Company's official website, WeChat official account, and other domestic and international new media platforms to actively address social concerns, provide earnest feedback on public opinions, and ensure the quality of our press releases. We promote systems and standards aimed at safeguarding our brand and continuously bolster our risk awareness and emergency response capabilities for handling public opinion events.

We emphasize the importance of lawful tax payment and strive to adhere to the principle of "paying all taxes as we shall and enjoying all rights we are entitled to." We implement special actions for legal taxation to enhance our tax compliance continuously. In 2022 and 2023, our payment of taxes and fees amounted to RMB 81 billion and RMB 77 billion, respectively, with the ratio of paid taxes and fees to profit reaching 80%. Our corporate income tax liability rate was slightly higher than the statutory tax rate, indicating a minimal tax gap and a high level of tax compliance. Throughout the period, we were not involved in any significant tax disputes.

Business Ethics and Anti-corruption

¹⁸ The Ten Codes of Conduct and Nine Aspects of Protocol of CSCEC consist of two parts. The Ten Codes of Conduct for Behaviors are advocacy and requirements on management behaviors and employees' habits, including an emphasis on corporate business ethics and defining fundamental principles. The Nine Aspects of Protocols for Etiquette are etiquette standards for employees and etiquette rules for personal and corporate images.

At CSCEC, we are constantly intensifying the reform of our disciplinary inspection and supervision system to create a political atmosphere of integrity. We perform business ethics and anti-corruption governance against the most stringent standards, maintaining zero tolerance for any acts of corruption. We sustain efforts in strengthening the top-level design of business ethics supervision. The head of the Disciplinary Inspection and Supervision Group attends the Board of Directors' meetings to receive reports on substantial matters and further enhance the responsibility of supervision. In 2022, we established an Accountability Committee, which implements the accountability and inquiry mechanism for those violating business ethics in accordance with the *Implementation Measures of CSCEC for Accountability for Illegal Operations and Investments* and other policies. We convened two meetings of the Accountability Committee, where four motions were deliberated, 24 key tasks for accountability were formulated, and 142 violations were addressed.

We consider "Honest and Accountable" as the fundamental principle guiding our business development. We strictly comply with the *Anti-Monopoly Law of the People's Republic of China*, the *Anti-Unfair Competition Law of the People's Republic of China*, and other pertinent laws and regulations. We have devised the *Ten Codes of Conduct and Nine Aspects of Protocol*¹⁸, the *Ten Prohibitions of CSCEC on Marketing*, and the *Guidelines of CSCEC on Anti-Bribery and Anti-Corruption Overseas*. In accordance with these policies, we

continuously enhance our standardized guidelines and institutionalized controls for anti-corruption and integrity. In 2023, we prepared a supervision list for disciplinary inspection and supervision. Focusing on business ethics and anti-corruption, we systematically collated the supervisory items and defined the supervisory requirements for headquarters departments and second-tier subsidiaries.

We prepare annual integrity training plans and actively promote training for all employees. Following the principle of "every training must be tested," we organize timely assessments of the necessary knowledge and skills after the training to ensure the comprehensive coverage and quality of the training. In addition, we conduct integrity regulatory talks with employees and maintain records on a quarterly basis. In the past two years, we conducted over 100,000 integrity regulatory talks. Throughout the Reporting Period, by organizing various forms of integrity training, we effectively enhanced the anti-corruption awareness among all employees and created a political atmosphere of integrity. We have released the integrity cultural philosophy of "Upholding Morality for High-quality Construction, Practicing Integrity as a Solid Foundation" and the Integrity Culture Logo, which aim to strengthen our culture driving force, improve policies and systems, and reinforce operational compliance.

Anti-corruption Training and Promotion

2022

- We conducted 20 integrity training sessions of various types, reaching a total audience of 10,274. Among these sessions, six were the Chaoying Breeze Lectures, which were attended by a total of 8,598 participants.

2023

- We hosted an anti-corruption conference and three warning education conferences, promoting subsidiaries at all levels and all systems to provide 23,856 sessions of similar warning education at the same level, achieving full coverage of anti-corruption training and warning education for employees at all levels.
- We hosted the largest business training session since the launch of the reform of the disciplinary inspection and supervision system for 300 trainees.
- We collaborated with the China Academy of Disciplinary Inspection and Supervision to organize rotating training courses for 630 members of the anti-corruption staff throughout the year, promoting the Group to organize 2,471 anti-corruption training sessions and business training within the disciplinary inspection and supervision system for 78,010 trainees. Throughout the year, a total of 660,000 trainees attended the warning education.

CPC Discipline Education and Tests

Disciplinary supervision organs at all levels hosted 17,408 training sessions on the CPC Constitution and rules for a total audience of 402,270.

Throughout the year, disciplinary supervision organs at all levels hosted 16,654 training sessions on the CPC Constitution and rules for a total audience of 477,349.

We have developed implementation measures for handling reports and complaints and operate a "Weekly Registry" system. Guided by our policies, we utilize an information system to continuously improve our mechanism for reporting violations and streamline reporting procedures, ensuring efficiency in receiving and referring reports. We provide diversified reporting channels for internal and external stakeholders such as employees, customers, and partners, and set out detailed contact information for reporting, including our address, email address, and phone number, on the Company's official website to facilitate the supervision and reporting

by people from sectors. The Disciplinary Inspection and Supervision Group conducts fair and impartial investigations and properly handles relevant matters.

We actively encourage internal and external stakeholders to report in real name, prioritizing the handling of such cases. Relevant matters will be handled by dedicated staff, and the confidentiality of whistleblowers' information will be maintained. Moreover, we commit to providing legal assistance to whistleblowers where necessary to protect them from potential threats or victimization.



CSCEC attending the 10th session of the UNCAC Conference of the States Parties (CoSP10)

CSCEC's Supervision and Reporting Channels

Mail and Visit Address:

Disciplinary Inspection and Supervision Group of China State Construction
 CSC Fortune International Center, Building 3, Courtyard 5, Anding Road, Chaoyang District, Beijing, 100029

E-mail Address: jubao@cscec.com

Reporting Number: 010-86498176

Appendices

ESG Key Performance

Topic	Secondary Heading	Indicator	Unit	2023	2022		
Environmental performance	Feature: Being a Pioneer in Responding to Climate Change	Advanced scientific and technological achievements for carbon peaking and carbon neutrality	project	117	77		
		Demonstration projects for green and low-carbon technologies	project	50	62		
	Environmental Management	Environmental investment and expenditure	RMB 100 million	6.98	6.8		
		The Company, headquarters of second-tier subsidiaries, and third-tier subsidiaries maintaining valid certification of the ISO 14001 environmental management system	subsidiary	189 ¹⁹			
		EIA pass rate of newly-built projects	%	100	100		
		Environmental protection training	session	Over 2,000	Over 1,800		
		Trainees of environmental protection training	trainee	Over 73,000	Over 61,000		
		Demonstration green sites	First batch of demonstration green sites	site	300	N/A in 2022	
			Achievements in green and low-carbon practices on construction sites	achievement	58	N/A in 2022	
		Green Development	Investment, construction, or operation projects as near-zero-energy/zero-carbon building demonstration projects	project	10	N/A in 2022	
			Near-zero-energy building project construction	Projects under construction	project	Over 80 ²⁰	
				Projects completed	project	Over 50 ²¹	
	Projects with green building certification		Projects with green building certification	project	Over 2,000 ²²		
		Three-star green buildings	project	215 ²³			
		Investment in clean energy R&D	RMB 100 million	322.69	300.60		

Topic	Secondary Heading	Indicator	Unit	2023	2022	
Social performance	Safe Production	Work-related fatalities	person	0	0	
		Results of internal safety inspections	Project inspections	inspection	316	246
			Risks and hidden perils identified	risk	1,651	3,522
	Partial work suspension orders issued		order	4	7	
	Safety awards	National Learning and Exchange Project for the Safety Production Standardization of Construction Projects by the China Construction Industry Association	project	239	176	
		ISA International Safety Award by the British Safety Council	project	275	133	
		Safety Science and Technology Progress Award by the China Association of Work Safety	project	37	16	
	Details of the Safe Production Month	Safety Consultation Day	session	3,700	3,624	
		Safety observation and exchange at the provincial level and above	session	200	197	
		Well-being Cup quiz	session	2,168	1,936	
		Special safety training	session	38,000	35,000	
		Emergency drills	session	15,000	13,000	
	Product Responsibility	Total investment in R&D	RMB 100 million	460.74	497.53	
		Patent applications	Total	piece	14,550	10,699
			Invention patents	piece	4,456	3,137
			Utility model patents	piece	9,494	7,562
		Patent authorizations	Total	piece	12,276	8,291
			Invention patents	piece	1,965	857
			Utility model patents	piece	11,130	7,434
		Trademark applications and authorizations	Trademark applications	piece	155	98
			Trademarks registered	piece	23	99
		Accumulative trademarks registered	piece	1,179	1,156	
	Supply Chain Management	Total suppliers	company	112,825	121,438	
Quality suppliers		company	875	722		
Number of suppliers by region		Northeast China	company	4,001	4,243	
		North China	company	16,147	18,335	
		East China	company	40,452	42,135	
		Central China	company	17,243	19,793	
		South China	company	13,808	14,806	
		Southwestern China	company	12,952	13,386	
	Northwest China	company	8,222	8,740		

¹⁹ ²⁰ ²¹ ²² ²³ The data collection period spans to the end of 2023.

Topic	Secondary Heading	Indicator	Unit	2023	2022	
Social performance	Employee Development	New employees through campus recruitment	10,000 persons	About 3	About 3.2	
		Total Number of Employees	Total Full-time Employees	person	382,894	382,492
		Full-time Employees by Gender	Male	person	309,540	302,136
			Female	person	73,354	80,356
		Full-time Employees by Age	Under 30	person	153,968	163,865
			30-50	person	198,738	187,414
			Over 50	person	30,188	31,213
		Full-time Employees by Rank	Senior management	person	17	17
			Other employees	person	382,877	382,475
		Investment in employee training		RMB 100 million	7.41	9.24
	Trainees of employee training		Person-time	5.3442 million	Over 6 million	
	Percentage employees admitted to trade unions		%	100	100	
	Percentage of subsidiaries with a trade union		%	100	100	
	Coverage of social security		%	100	100	
	Contract signing rate		%	100	100	
	Common Progress in the Community	Rural revitalization	Number of beneficiaries	person	317,175	113,655
			Total investment	RMB 10,000	15,849.9	16,135.8
			Funds	RMB 10,000	15,496	15,783.2
			Value of supplies	RMB 10,000	353.9	352.6
		Community investment	Total amount of outward donations and public welfare inputs	RMB 10,000	15,989.9	21,882
Education			RMB 10,000	998	1,375	
Culture			RMB 10,000	140	341	
Public welfare programs		Number of volunteer organizations	organization	Over 1,800	Over 1,600	
		Number of volunteers	person	120,000	110,000	
		Number of volunteering activities	session	Over 10,000	Over 13,000	
Total hours of volunteering		hour	Over 110,000	Over 180,000		
Compliance and Risk Management	Corporate Governance	Meetings of the Board of Directors	session	23	18	
		Shareholders' General Meetings	session	3	2	
		Number of directors	person	7	6	
		Number of independent directors	person	4	4	
		Number of female directors	person	1	0	
	Compliance and Risk Management	Audit projects completed	project	2,184	1,665	
		Payment of taxes		RMB 100 million	770	810

Global Reporting Initiative GRI Content Index

Statement of use

CSCEC has reported in accordance with the GRI Standards for the period from 1 January 2023 to 31 December 2023

GRI 1 used

GRI 1: Foundation 2021

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION
GRI 2: General Disclosures 2021		
The organization and its reporting practices		
2-1	Organizational details	About CSCEC
2-2	Entities included in the organization's sustainability reporting	About the Report
2-3	Reporting period, frequency and contact point	About the Report
2-4	Restatements of information	/
2-5	External assurance	/
Activities and workers		
2-6	Activities, value chain and other business relationships	Supply Chain Management
2-7	Employees	Employee Development
2-8	Workers who are not employees	Supply Chain Management
Governance		
2-9	Governance structure and composition	Corporate Governance
2-10	Nomination and selection of the highest governance body	Corporate Governance
2-11	Chair of the highest governance body	Corporate Governance
2-12	Role of the highest governance body in overseeing the management of impacts	Corporate Governance
2-13	Delegation of responsibility for managing impacts	Corporate Governance
2-14	Role of the highest governance body in sustainability reporting	Statement of the Board of Directors
2-15	Conflicts of interest	Compliance and Risk Management
2-16	Communication of critical concerns	Corporate Governance, ESG Governance Structure
2-17	Collective knowledge of the highest governance body	Corporate Governance, ESG Governance Structure
2-18	Evaluation of the performance of the highest governance body	Corporate Governance
2-19	Remuneration policies	Corporate Governance
2-20	Process to determine remuneration	Corporate Governance
2-21	Annual total compensation ratio	Corporate Governance
Strategy, policies and practices		
2-22	Statement on sustainable development strategy	ESG Governance
2-23	Policy commitments	Employee Development, Business Ethics and Anti-corruption
2-24	Embedding policy commitments	Employee Development, Business Ethics and Anti-corruption
2-25	Processes to remediate negative impacts	Business Ethics and Anti-corruption
2-26	Mechanisms for seeking advice and raising concerns	Stakeholder Management
2-27	Compliance with laws and regulations	/
2-28	Membership associations	/

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION
Stakeholder engagement		
2-29	Approach to stakeholder engagement	Stakeholder Management
2-30	Collective bargaining agreements	Employee Development
Material Topics		
GRI 3: Material Topics 2021		
3-1	Process to determine material topics	Materiality Matrix
3-2	List of material topics	Materiality Matrix
GRI 201: Economic Performance 2016		
3-3	Direct economic value generated and distributed	/
201-2	Financial implications and other risks and opportunities due to climate change	Feature: Being a Pioneer in Responding to Climate Change
201-3	Defined benefit plan obligations and other retirement plans	Employee Development
GRI 204: Procurement Practices 2016		
3-3	Management of material topics	Supply Chain Management
GRI 205: Anti-corruption 2016		
3-3	Management of material topics	Business Ethics and Anti-corruption
205-1	Operations assessed for risks related to corruption	/
205-2	Communication and training about anti-corruption policies and procedures	Business Ethics and Anti-corruption
205-3	Confirmed incidents of corruption and actions taken	/
GRI 206: Anti-competitive Behavior 2016		
3-3	Management of material topics	/
206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	/
GRI 207: Tax 2019		
3-3	Management of material topics	Compliance and Risk Management
207-1	Approach to tax	Compliance and Risk Management
GRI 301: Materials 2016		
3-3	Management of material topics	Environmental Management
301-1	Materials used by weight or volume	/
301-2	Recycled input materials used	/
301-3	Reclaimed products and their packaging materials	/
GRI 302: Energy 2016		
3-3	Management of material topics	Green Development
302-1	Energy consumption within the organization	/
302-3	Energy intensity	/
302-4	Reduction of energy consumption	Green Development
302-5	Reductions in energy requirements of products and services	Green Development
GRI 303: Water and effluents 2018		
3-3	Management of material topics	Emission Control
303-1	Interactions with water as a shared resource	/

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION
303-2	Management of water discharge-related impacts	/
303-3	Water withdrawal	Emission Control
GRI 304: Biodiversity 2016		
3-3	Management of material topics	Environmental Management
304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	Environmental Management
304-2	Significant impacts of activities, products and services on biodiversity	/
304-3	Habitats protected or restored	Environmental Management
304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations	/
GRI 305: Emissions 2016		
3-3	Management of material topics	Emission Control
305-1	Direct (Scope 1) GHG emissions	/
305-2	Energy indirect (Scope 2) GHG emissions	/
305-4	GHG emissions intensity	/
305-5	Reduction of GHG emissions	/
305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	/
GRI 306: Waste 2020		
3-3	Management of material topics	Emission Control
306-1	Waste generation and significant waste-related impacts	Emission Control
306-2	Management of significant waste-related impacts	Emission Control
306-3	Waste generated	/
306-4	Waste diverted from disposal	/
306-5	Waste directed to disposal	/
GRI 308: Supplier Environmental Assessment 2016		
3-3	Management of material topics	Supply Chain Management
308-1	New suppliers that were screened using environmental criteria	/
308-2	Negative environmental impacts in the supply chain and actions taken	/
GRI 401: Employment 2016		
3-3	Management of material topics	Employee Development
401-1	New employee hires and employee turnover	Employee Development
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	Employee Development
401-3	Parental leave	Employee Development
GRI 402: Labor/Management Relations 2016		
3-3	Management of material topics	Employee Development
GRI 403: Occupational Health and Safety 2018		
3-3	Management of material topics	Safe Production
403-1	Occupational health and safety management system	Safe Production

List of Laws, Regulations, and Internal Management Systems

GRI STANDARD/ OTHER SOURCE	DISCLOSURE	LOCATION
403-2	Hazard identification, risk assessment, and incident investigation	Safe Production
403-3	Occupational health services	Safe Production
403-4	Worker participation, consultation, and communication on occupational health and safety	Safe Production
GRI 404: Training and Education 2016		
3-3	Management of material topics	Employee Development
404-1	Average hours of training per year per employee	Employee Development
404-2	Programs for upgrading employee skills and transition assistance programs	Employee Development
404-3	Percentage of employees receiving regular performance and career development reviews	Employee Development
GRI 405: Diversity and Equal Opportunity 2016		
3-3	Management of material topics	Employee Development
405-1	Diversity of governance bodies and employees	Employee Development, Corporate Governance
GRI 406: Non-discrimination 2016		
3-3	Management of material topics	Employee Development
406-1	Incidents of discrimination and corrective actions taken	Employee Development
GRI 408: Child Labor 2016		
3-3	Management of material topics	Employee Development
GRI 409: Forced or Compulsory Labor 2016		
3-3	Management of material topics	Employee Development
GRI 413: Local Communities 2016		
3-3	Management of material topics	Joint Efforts in Community Development
413-1	Operations with local community engagement, impact assessments, and development programs	Joint Efforts in Community Development
GRI 414: Supplier Social Assessment 2016		
3-3	Management of material topics	Supply Chain Management
414-1	New suppliers that were screened using social criteria	/
414-2	Negative social impacts in the supply chain and actions taken	/
GRI 416: Customer Health and Safety 2016		
3-3	Management of material topics	Product Responsibility
416-1	Assessment of the health and safety impacts of product and service categories	Product Responsibility
416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	Product Responsibility
GRI 417: Marketing and Labeling 2016		
3-3	Management of material topics	Product Responsibility
417-1	Requirements for product and service information and labeling	Product Responsibility
417-2	Incidents of non-compliance concerning product and service information and labeling	/
417-3	Incidents of non-compliance concerning marketing communications	/
GRI 418: Customer Privacy 2016		
3-3	Management of material topics	Product Responsibility
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	Product Responsibility

Category	Corresponding Secondary Heading	Law or Regulation	Internal System
Environmental	Feature: Being a Pioneer in Responding to Climate Change	Carbon Emission Calculation and Accounting Standard for the Urban-Rural Development Sector	CSCEC's Action Plan for Carbon Dioxide Peaking
		Carbon Emission Calculation Standard for the Construction Stage of Industrialized Buildings	
	Environmental Management	Environmental Protection Law of the People's Republic of China	Management Measures of CSCEC for Eco-Environmental Protection
		Law of the People's Republic of China on Environmental Impact Assessment	Management Regulations of CSCEC on Responsibilities for Eco-environmental Protection (for Trial Implementation)
		Energy Conservation Law of the People's Republic of China	Project Management Handbook of CSCEC
		National Environmental Emergency Response Plan	Implementation Plan for the Evaluation and Recognition of Green Sites of CSCEC
		Regulations on the Administration of Construction Project Environmental Protection	Detailed Rules of China Overseas Property Holdings Limited for Energy Conservation Assessment
			Management Measures of CSCEC for Internal Control, Institutional Management, and Quality, Environment, and Occupational Health and Safety Systems
	Emission Control	Atmospheric Pollution Prevention and Control Law of the People's Republic of China	Decisions of the China State Construction on Comprehensively Enhancing Eco-environmental Protection to Completely Win the Battle Against Pollution
		Water Pollution Prevention and Control Law of the People's Republic of China	
Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes			
Green Development	Law of the People's Republic of China on Noise Pollution Prevention and Control	Directory of Green and Low-Carbon Products and Services CSC Land Green Building Technology Handbook Initiative on Green and Low-Carbon Behavior of Employees Initiative to CSCEC Employees	
	Assessment Standard for Green Building		
	List of Demonstration Projects of Advanced Green and Low-Carbon Technologies (First Batch)		
Safe Production		Work Safety Law of the People's Republic of China	Management Measures of CSCEC for Safe Production
		Law of the People's Republic of China on the Prevention and Control of Occupational Diseases	Management Measures of CSCEC for Occupational Health
	Administrative Regulations on the Work Safety of Construction Projects	CSCEC Safe Production Management Handbook (2018 Edition)	
	Regulations on the Reporting, Investigation and Disposition of Work Safety Accidents	Rules of CSCEC on the Work of the Safe Production Committee	
	Standard for Construction Safety Inspection	Management Measures for the Graded Management and Control of Safety Risks and the Investigation, Management, and Prevention Mechanism for Hidden Perils	
	Provisions on the Supervision and Management of Work Safety at Central Enterprises	Management Guidelines of CSCEC on the Operational Safety of Urban Parks (for Trial Implementation)	
		Management Guidelines of CSCEC on the Operational Safety of Utility Tunnels (for Trial Implementation)	

Category	Corresponding Secondary Heading	Law or Regulation	Internal System
Corporate Governance	Product Responsibility	Construction Law of the People's Republic of China	Handbook of CSCEC for the Prevention and Treatment of Common Issues in Residential Works
		Regulation on the Quality Management of Construction Projects	CSCEC Quality Management (QC Team) Action Guide
		Guiding Opinions of the CPC Central Committee and the State Council on Launching the Quality Improvement Action	Management Measures of CSCEC for the Quality of Construction Enterprises
		Notice of the Ministry of Housing and Urban-Rural Development on Improving the Reporting and Investigation of Quality Accidents in Housing Construction and Municipal Infrastructure Projects (Construction Quality [2010] No. 111)	CSCEC Evaluation Measures for High-quality Works
		Patent Law of the People's Republic of China	CSCEC Measures for Graded Management and Control of Quality Risks of Works
		Copyright Law of the People's Republic of China	Guiding Opinions on Promoting the High-Quality Development of Patents at CSCEC
		Trademark Law of the People's Republic of China	Management Measures of CSCEC for Scientific and Technological Achievements
		Cybersecurity Law of the People's Republic of China	Protection and Management Measures of CSCEC for Trade Secrets
		Personal Information Protection Law of the People's Republic of China	Management Provisions of CSCEC on Rule of Law
		Urban Real Estate Administration Law of the People's Republic of China	Management Measures of CSCEC for Trademarks
Employee Development	Supply Chain Management	Advertising Law of the People's Republic of China	Management Measures of CSCEC for Bidding and Tendering
		Regulatory Measures on the Sale of Commercial Houses	Detailed Rules of CSCEC for the Management of Personnel Cybersecurity
		Bidding Law of the People's Republic of China	Detailed Rules of CSCEC for the Management of Cybersecurity Construction
		Management Regulations of CSCEC on Leading Officials (2022 Edition)	Detailed Rules of CSCEC for the Management of Cybersecurity Operation and Maintenance
		Labor Law of the People's Republic of China	Detailed Rules of CSCEC for the Management of Cybersecurity Risks
		Provisions on the Prohibition of Using Child Labor	Ten Prohibitions of CSCEC on Marketing
		Labor Contract Law of the People's Republic of China	Requirements on Strengthening Risks at the Source of Infrastructure Projects
		Special Rules on the Labor Protection of Female Employees	Notice on Regulating Complaint Behavior in Engineering Bidding
		Management Regulations on Special Working Hours	Management Measures of CSCEC for Sub-supplier Resources
		Provisions on the Work of Trade Union Committees for Female Workers	Management Measures of CSCEC for Centralized Procurement of Labor and Professional Contracting
Employee Development	Employee Development	Law of the People's Republic of China on the Protection of Women's Rights and Interests	Project Management Handbook of CSCEC
		Regulation on Paid Annual Leave for Employees	Implementation Plan of CSCEC for Green Supply Chain Construction
		Interim Provisions on the Avoidance of Office of Party and Government Leading Officials and Cadres	Management Regulations of CSCEC on Leading Officials (2022 Edition)
		Interim Provisions on the Avoidance of Office and Business Commissions of Leading Officials of Key State-owned Enterprises	Q&A on the Management of Leading Officials at CSCEC
		Guidelines on Employee Share Ownership in State-Held Mixed Ownership Enterprises	Detailed Rules of CSCEC for the Implementation of Promoting the Adaptability of Leading Officials to Any Positions
		National Plan for Cadre Education and Training (2023-2027)	Capacity and Competency Enhancement Program for Project Managers
			Guiding Opinions on Internal Talent Mobility Management
			Guiding Opinions on Workforce Building for Design Institutes
			Guiding Opinions of CSCEC on Compensation Distribution for Projects
			Guiding Opinions of CSCEC on Compensation Distribution for Design Institutes

Category	Corresponding Secondary Heading	Law or Regulation	Internal System
Corporate Governance	Common Progress in the Community		Strategic Plan of CSCEC During the 14th Five-Year Plan Period
		Charity Law of the People's Republic of China	List of Paired Assistance and Partner Assistance Tasks
		Implementation Measures for the Responsibility System of Rural Revitalization	Partner Assistance to Green Building Materials Industrial Park in Changting County
			Social Responsibility Guidance Manual
Corporate Governance	Corporate Governance		Cultural Integration Manual of CSCEC
			Implementation Plan of CSCEC for Brand Leadership
		Company Law of the People's Republic of China	Articles of Association of CSCEC
		Securities Law of the People's Republic of China	Rules of Procedure of the Board of Directors of CSCEC
Corporate Governance	Compliance and Risk Management		Rules of Procedure of the Supervisory Committee of the Board of Directors of CSCEC
			Rules of Procedure of the Board of Supervisors of CSCEC
			Management Measures of CSCEC for the Remuneration and Appraisal of Senior Executives
			Management Measures of CSCEC for Allowances for Directors and Supervisors
Corporate Governance	Business Ethics and Anti-corruption		Rules of CSCEC on the Work of Independent Directors
			Rules of Procedure of CSCEC of the General Manager's Working Conference
			Compliance Management Regulations of CSCEC
			Risk Management Regulations of CSCEC
Corporate Governance	Business Ethics and Anti-corruption	Measures for the Compliance Management of Central Enterprises	Management Regulations on Compliance Reviews of CSCEC
			Management Measures for Risk Assessment of CSCEC
			Rules of Procedure of the Audit and Risk Committee of the Board of Directors of CSCEC
			Guidelines of CSCEC on Anti-Bribery and Anti-Corruption Overseas
Corporate Governance	Business Ethics and Anti-corruption	Anti-monopoly Law of the People's Republic of China	Detailed Rules for the Use and Implementation of Supervision, Inspection, Review, and Investigation Measures
		Anti-Unfair Competition Law of the People's Republic of China	Measures for the Joint Prevention and Control, Supervision, and Management of Integrity Risks in Major Construction Projects
		Oversight Law of the People's Republic of China	Ten Codes of Conduct and Nine Aspects of Protocol
		Anti-Money Laundering Law of the People's Republic of China	Supervision List for Disciplinary Inspection and Supervision for 2023
Corporate Governance	Business Ethics and Anti-corruption		Implementation Measures of the Disciplinary Inspection and Supervision Group for Handling Reports and Complaints

Feedback

Dear reader,

Thank you very much for spend time in reading the CSCEC 2023 Environmental, Social and Governance and Sustainability Report. We eagerly look forward to your comments and suggestions on the report and our work. Your attention and support make important impetus for us to continue to promote our sustainability management and practice.

We are looking forward to your reply!

Multiple Choice (Please tick the corresponding box.)

Which category of CSCEC's stakeholders does your organization belong:

Shareholder Employee Supplier Customer Government
Community Academic institution Others (please specify)

Is all the information you are concerned about reflected in the report?

Yes Partly No

Your overall evaluation of CSCEC 2023 Environmental, Social and Governance and Sustainability Report:

Readability (It is presented in an easy-to-understand way, with aesthetically pleasing design and convenient access to required information.)

High Medium Low

Credibility (The information reported is truthful and reliable.)

High Medium Low

Completeness of information (Both positive and negative information is covered, meeting your needs for information.)

High Medium Low

Is it easy for you to locate the information you are concerned about in the report?

Yes Partly No

Do you expect paper or electronic reports in the future?

Paper Electronic

Other comments and suggestions on CSCEC 2023 Environmental, Social and Governance and Sustainability Report are welcome.

Name:	Organization:	Contact Info:
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