

Environmental Social and Governance Report 2024

China Three Gorges Renewables (Group) Co., Ltd.



About This Report

Basis for Preparation

This Report was prepared according to the *Work Plan for Improving the Quality of Central State-owned Enterprises' Listed Companies* issued by the State-owned Assets Supervision and Administration Commission (SASAC) of the State Council, the *Governance Standards for Listed Companies* issued by the China Securities Regulatory Commission (CSRC), the *Self-Regulatory Guidelines No. 14 for Companies Listed on Shanghai Stock Exchange - Sustainable Development Report (for Trial Implementation)* and *Self-Regulatory Guidelines No. 4 for Companies Listed on Shanghai Stock Exchange - Preparation of Sustainability Reports* issued by Shanghai Stock Exchange and other requirements under the principles of materiality, consistency and objectivity.

The preparation process of this Report complies with the *GRI Sustainability Reporting Standards* (GRI Standards) issued by the Global Sustainability Standards Board (GSSB) and actively responds to the United Nations Sustainable Development Goals (SDGs).

Reporting Scope

Unless otherwise specified, this Report covers China Three Gorges Renewables (Group) Co., Ltd. and its affiliated companies, with the scope and assessment criteria consistent with those disclosed in the *2024 Annual Report of China Three Gorges Renewables (Group) Co., Ltd.* (hereinafter referred to as the "Annual Report 2024").

Reporting Period

This Report is an annual report covering the period from January 1, 2024 to December 31, 2024. Some contents have been appropriately extended beyond this timeframe as needed for disclosure purposes.

Reliability

Data in this Report are mainly derived from the Company's Annual Report 2024 and relevant documents. All currency amounts referred in this Report are in CNY unless otherwise stated. The Company guarantees that there is no false record or misleading statement in this Report, and the Report was released after approval by the Board of Directors.

Term of Address

For ease of presentation and reading, China Three Gorges Renewables (Group) Co., Ltd. is referred to in this Report as "CTGR", "the Company", or "we". CTGR's affiliated companies are mainly denoted in abbreviated forms, and their full names and abbreviated names are shown in the Appendix "Glossary of Terms".

Availability

This Report is prepared in English. The electronic version is available for download and viewing on the website of the Company's official website (www.ctgne.com).



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Message from the Chairman

We sincerely thank our stakeholders and all sectors of society for their continued support and interest in CTGR!

The year 2024 marks a pivotal year in fulfilling the goals of the 14th Five-Year Plan and is also a crucial year for CTGR in advancing development, improving quality, and increasing efficiency. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we deeply studied and implemented the guiding principles of the 20th National Congress of the Communist Party of China and the Second and Third Plenary Sessions of the 20th Central Committee, actively responded to national strategies, and firmly pursued the path of green development. With the state's carbon peaking and carbon neutrality goals as our guiding compass, and guided by technological innovation, we have made solid strides in advancing the green energy transition, fulfilling our social responsibilities, and enhancing the corporate governance efficiency.

This year, we embraced green development as our foundation and painted a vibrant blueprint for high-quality development. Amid the intensifying challenges of global climate change and a growing consensus around energy transition, CTGR remained focused on supporting China's carbon peaking and carbon neutrality strategy, concentrated its efforts on the "one belt, one line, three key areas" framework, fully implemented the strategy of "focusing on large-scale enterprises, promoting medium-sized ones, and optimizing small-scale ones", and deeply integrated the concept of sustainable development into its business operations, pushing the Company's high-quality development to new heights. In 2024, we added another 1,558.2 MW of offshore wind power capacity, bringing our cumulative grid-connected offshore wind power capacity to 7,049.8 MW, continuing maintaining our industry-leading position in China. Onshore base projects progressed in an orderly manner, with successful construction kickoffs at the renewable energy base in the Kubuqi Desert in central-northern Ordos, Inner Mongolia, and the renewable energy base in the Taklamakan Desert in southern Xinjiang. We explored the integrated development models such as "offshore wind power + industrial park" and "offshore wind power + gas power for peak regulation". We also actively improved our marketing capabilities and lean management, advancing the comprehensive development in wind, solar, energy storage, green certificates, carbon trading, and power sales. In total, 7,917 MW of new capacity was connected to the grid in 2024, bringing our cumulative grid-connected capacity to 47,961.4 MW. Our power generation capacity reached 71,952 GWh during the year, showing a year-on-year growth of 30.40%, equivalent to saving approximately 21.6937 million tons of standard coal equivalent and reducing carbon dioxide emissions by about 57.2713 million tons. All power consumed at our headquarters office came from green energy.

This year, guided by our sense of mission, we fulfilled our responsibilities as a corporate citizen. As a central state-owned enterprise (central SOE), CTGR has fulfilled its responsibilities as a state-owned enterprise by actively supporting the national energy security strategy and ensuring a stable power supply for public well-being. In 2024, the Company successfully completed multiple rounds of power supply assurance tasks, including those for the NPC and CPPCC Sessions and the peak power consumption hours in summer. The Company's maximum single-day power generation capacity exceeded 308 GWh, with

that of offshore wind power exceeding 115 GWh, both setting new historical benchmarks. We remained committed to our corporate social responsibility, expanding and deepening our impact and repaying society through concrete actions. We continued our paired assistance in Wan'an County, Jiangxi Province and Bairin Left Banner, Inner Mongolia, contributing to rural revitalization through various efforts including industry development, employment assistance, and educational support. We have been honored as a "Capital Model Organization" for two consecutive years and received awards such as the "Annual Low-Carbon Pioneer Award for Corporate Social Responsibility in China". We upheld a people-centered management philosophy, protected employees' rights and interests, and strived to foster a fair, safe, and fulfilling workplace to promote the shared growth between employees and the Company.

This year, we drove our progress with reform and innovation, laying out a blueprint for modernized governance. With a focus on strengthening the core functions and improving the core competitiveness, CTGR continued with its actions for deepening and advancing the reform of state-owned enterprises. We further improved our modern corporate governance framework and cultivated new growth engines, earning the title of a "Benchmark Enterprise" in the "Double Hundreds Action" performance evaluation launched by the State-owned Assets Supervision and Administration Commission (SASAC). We remained committed to innovation-driven development, closely tracked cutting-edge technologies in the industry, and increased investment in R&D, striving to become a model of new quality productive force in the renewable energy sector. This commitment yielded notable scientific and technological achievements, including our first-ever First Prize of the National Science and Technology Progress Award and a record-breaking number of newly granted patents. We strengthened our compliance management system through a coordinated "three lines of defense" framework, building a robust and meticulous compliance foundation. We also worked hard to improve the level of standardized operations of the listed company, enhance the quality of information disclosure, strengthen communication with investors, and ensure stable returns to investors, thereby boosting the market recognition. In 2024, we distributed CNY 2,232 million in cash dividends, representing 31.09% of the consolidated net profit attributable to shareholders of the listed company. We were honored by the China Association for Public Companies with awards such as the Best Practice of the Board of Listed Companies in 2024 and Best Practice in Investor Relations Management of Listed Companies. We also received an "A"-rating from the Shanghai Stock Exchange for annual information disclosure by listed companies for the third consecutive year. We refined our ESG management system, released an ESG indicator system and handbook, and saw steady improvement in ESG ratings. We were recognized by the China Association for Public Companies with the Best Practice in Sustainable Development of Listed Companies in 2024.

Though the road ahead may be long, we are steadfast on our journey. Looking forward to 2025, CTGR, under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, will uphold our core values of "Innovation-driven development for a carbon-neutral and win-win future", and press forward with determination. Together with our partners, we will power high-quality development with green energy, respond to the call of the times with a strong sense of responsibility, fulfill our mission of green development, and work toward a brighter, more sustainable future for all.

Company Basic Information

Company Profile

China Three Gorges Renewables (Group) Co., Ltd., founded on September 5th, 1985, is the strategic entity responsible for implementing the renewable energy businesses of China Three Gorges Corporation, and carries the historical mission of advancing renewable energy development. The Company was officially listed on the main board of the Shanghai Stock Exchange in June 2021, under the stock code: 600905.

The Company's primary product is electricity. According to the Industrial Classification for National Economic Activities, it operates within the power generation sector, specifically focusing on wind power and solar power generation. During the reporting period, there were no changes to the Company's industry classification and main businesses.

With a focus on the development, investment, and operation of wind and solar energy, the Company actively promotes onshore wind power and photovoltaic (PV) power generation, vigorously develops offshore wind energy, and accelerates the construction of large-scale wind and solar power generation bases in desert, Gobi, and arid regions. It also promotes the source-grid-load-storage integration, advances the coordinated development of multiple energy sources, and scientifically and systematically expands into pumped storage, new energy storage, hydrogen energy, and solar thermal power businesses. Additionally, it also invests in industries closely related to renewable energy businesses that offer complementary strengths and strategic synergy, basically establishing a comprehensive and collaborative business framework encompassing wind power, solar power, energy storage, and strategic investments. Currently, the Company's businesses span across 30 provinces, autonomous regions, and municipalities throughout China. It ranks among the top in the domestic renewable energy industry in terms of installed capacity and profitability.

Strategy and culture

CTGR seizes the development opportunities to earnestly implement the new strategy for energy security, and steadily advance the national carbon peaking and carbon neutrality goals, striving for a green and low-carbon energy transition. It is committed to supporting the construction of a modern power system and a new energy system.

Mission

Harmonizing development with conservation for greater public wellbeing

Vision

Striving for clean energy and Yangtze River conservation and building a world-class enterprise

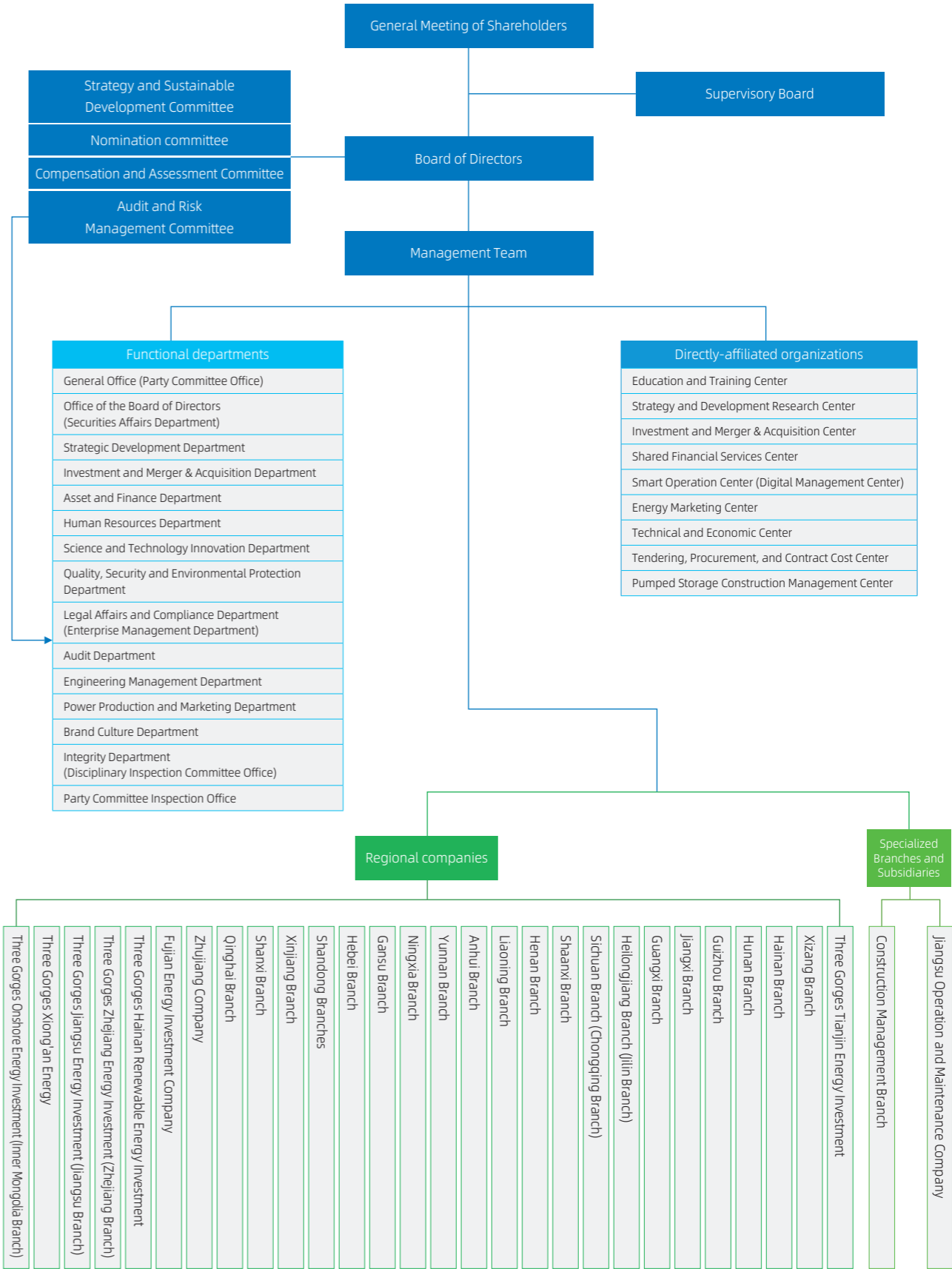
Value

Innovation-driven development for a carbon-neutral and win-win future

Brand slogan

Empowering a greener world

Organizational Structure



► Business profile

In 2024, CTGR added another 7,917 MW of installed capacity, bringing the total installed capacity to 47,961.4 MW. Among which, the accumulative installed capacity of wind power reached 22,432 MW, including 7,049.8 MW of offshore wind capacity. The accumulative installed capacity of solar power generation reached 24,265.7 MW.

In 2024, the Company reported consolidated total assets of CNY 356.871 billion, operating revenue of CNY 29.717 billion, total profit of CNY 8.56 billion, and net profit attributable to the parent company's shareholders of CNY 6.111 billion.

1. Offshore wind power business

The Company remains firmly committed to its "Offshore Wind Power Leader" strategy, actively promoting the large-scale and integrated development of offshore wind power. It has accelerated the handling of preliminary procedures for upcoming projects and coordinated construction equipment and device resources for projects currently under development. By closely aligning with the resource development plans in key coastal regions, the Company continues to strengthen its competitive advantage in the large-scale development of offshore wind power. As of the end of 2024, the Company's total offshore wind power installed capacity has exceeded 7 GW, ranking first in China and among the top globally.

2. Onshore renewable energy business

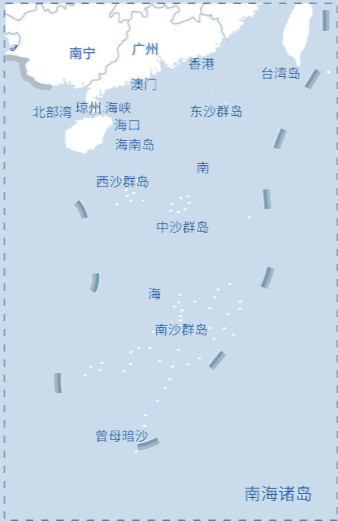
The Company continues to focus on its core business of renewable energy and accelerate the construction of national large-scale base projects. In the development of bases in desert, Gobi, and arid regions, the construction of projects in the Kubqi Desert in central-northern Ordos, Inner Mongolia, and in the Taklamakan Desert in southern Xinjiang has successfully commenced. The first batch of national large-scale bases has entered the final stages of construction, with projects such as the Xiyang "photovoltaic + energy storage" project in Shanxi and the southern Fuyang wind-solar base in Anhui achieving full-capacity grid connection. Construction of the third batch of large-scale bases is accelerating. The photovoltaic portion of the Hami-Yizhou solar-thermal base in Xinjiang achieved full-capacity grid connection and the Zhaodong wind-solar base in Heilongjiang has broken ground, resulting in a pattern with coordinated development of multiple projects in various regions.

3. Energy storage business

The Company plans demonstration projects for new energy storage in a scientific way, and optimizes the layout of system-supporting flexible resources such as solar thermal power plants and independent energy storage stations. It also actively promotes the source-grid-load-storage integration, and steadily advances the development of high-quality pumped storage projects to enhance the flexibility of its power generation portfolio.

4. Strategic investment business

It also invests in industries closely related to renewable energy businesses that offer complementary strengths and strategic synergy, basically establishing a comprehensive and collaborative business framework encompassing wind power, solar power, and strategic investments.



Business Layout

► Honors



► Response to the United Nations Sustainable Development Goals (SDGs)

SDGs	Actions of CTGR	Corresponding Chapter
 No Poverty	<ul style="list-style-type: none">• Rural revitalization• Industrial assistance• Community co-building	Special Topic 1 Rural Revitalization and Social Contributions
 Zero Hunger	<ul style="list-style-type: none">• Rural revitalization• Community co-building	Special Topic 1 Rural Revitalization and Social Contributions
 Good Health and Well-being	<ul style="list-style-type: none">• Occupational health protection• Employee welfare• Employee Care• Community aid• Public welfare	Employees Rural Revitalization and Social Contributions
 Quality Education	<ul style="list-style-type: none">• Educational assistance• Scholarship program• High-quality training plan	Employees Rural Revitalization and Social Contributions
 Gender Equality	<ul style="list-style-type: none">• Protection of female employees' rights• Equal pay for equal work• Fair and equitable recruitment	Employees
 Clean Water and Sanitation	<ul style="list-style-type: none">• Environmental friendly practices• Clean development model• Water resources protection	Special Topic 2 Environmental Management Employees
 Affordable and Clean Energy	<ul style="list-style-type: none">• Clean energy industry development• "Renewable Energy+" industry development• "Renewable Energy+" Agri-aqua-PV complementary development	Special Topic 1 Product Safety & Quality Assurance Business Planning and Layout Rural Revitalization and Social Contributions
 Decent Work and Economic Growth	<ul style="list-style-type: none">• "Renewable Energy+" driving economic development• Clean energy industry development• Employee compensation and benefits plan• Community employment opportunities	Special Topic 1 Employees Rural Revitalization and Social Contributions

SDGs	Actions of CTGR	Corresponding Chapter
 Industry, Innovation and Infrastructure	<ul style="list-style-type: none">• Intelligence operation and maintenance• Scientific and Technological Innovation• Community co-building	Special Topic 3 Product Safety & Quality Assurance Rural Revitalization and Social Contributions
 Reduced Inequalities	<ul style="list-style-type: none">• Rural revitalization• Industrial assistance• Promoting balanced regional development	Rural Revitalization and Social Contributions
 Sustainable Cities and Communities	<ul style="list-style-type: none">• Green Office• Green power trading	Environmental Management
 Responsible Consumption and Production	<ul style="list-style-type: none">• Green procurement• Clean power generation• Stable power supply	Special Topic 1 Product Safety & Quality Assurance Suppliers and Customers
 Climate Action	<ul style="list-style-type: none">• Climate risk analysis and response• Environmental protection actions	Responding to Climate Change
 Life below Water	<ul style="list-style-type: none">• Aquatic biodiversity conservation• "Renewable Energy+" ecological harmony	Biodiversity & Ecosystem Conservation
 Life on Land	<ul style="list-style-type: none">• Terrestrial biodiversity conservation• Regular data monitoring	Biodiversity & Ecosystem Conservation
 Peace, Justice and Strong Institutions	<ul style="list-style-type: none">• Standardized governance• Risk management and compliance development• Internal audit and integrity building	Corporate Governance
 Partnerships for the Goals	<ul style="list-style-type: none">• Sustainable supply chain development• Upstream and downstream industry chain communication	Stakeholder Engagement Suppliers and Customers

Materiality Assessment on Topics

Double Materiality Analysis

CTGR follows the principle of double materiality and assesses ESG topics from two aspects, i.e., impact materiality and financial materiality. It conducts evaluations via a systematic process that includes topic identification, stakeholder survey, topic matrix construction and disclosure, ultimately forming a material topic matrix to enhance its ESG management practices.

Establishment of a List of Topics

The list of ESG topics for the 2024 Sustainability Report of CTGR was developed in accordance with the *Guidelines No. 14 of Shanghai Stock Exchange for Self-Regulation of Listed Companies—Sustainability Report (Trial)* (hereinafter referred to as the Guidelines). The list also integrates internationally recognized ESG standards and key rating indicators, references practices from other companies in the same industry, and considers continuity with the Company's 2022 and 2023 ESG reports.

Policy analysis

Key national laws and regulations were reviewed together with industry- and business-specific policies to identify material topics.

Rules and standards

Twenty-one baseline topics were included in accordance with the Guidelines, and additional topics related to key indicators were incorporated with reference to international ESG standards and rating indicators.

Fellow trader analysis

Leading ESG practices from peer companies in the same industry were reviewed, and topics with strong sector relevance and double materiality were incorporated.

Company facts

The Company's 2023 material topic assessment results were analyzed in conjunction with current business conditions to determine key ESG topics for 2024.

Taking into account the factors referred to above, the Company has identified 27 material ESG topics with substantial impacts, including 8 environmental, 10 social, and 9 governance topics, based on the 21 topics defined in the Guidelines.

Topic table	Environmental (8 topics)	Social (10 topics)	Governance (9 topics)
	<div><div>• Responding to Climate Change</div><div>• Pollutant Discharge</div><div>• Waste Disposal</div><div>• Biodiversity & Ecosystem Conservation</div><div>• Environmental Regulatory Compliance</div><div>• Energy Utilization</div><div>• Water Resources Utilization</div><div>• Circular Economy</div></div>	<div><div>• Rural Revitalization</div><div>• Social Contributions</div><div>• Innovation-driven Development</div><div>• Tech & Science Ethics</div><div>• Supply Chain Resilience</div><div>• Equal Treatment for SMEs</div><div>• Product Safety & Quality Assurance</div><div>• Data Security & Customer Privacy</div><div>• Employees</div><div>• Power Energy Supply Reliability</div></div>	<div><div>• Due Diligence</div><div>• Stakeholder Engagement</div><div>• Anti-Bribery & Anti-Corruption</div><div>• Anti-unfair Competition</div><div>• Business Planning and Layout</div><div>• Compliance and Risks</div><div>• Shareholders' Rights and Interests</div><div>• Related Transactions</div><div>• Executive Compensation Transparency</div></div>

Assessment of material topics

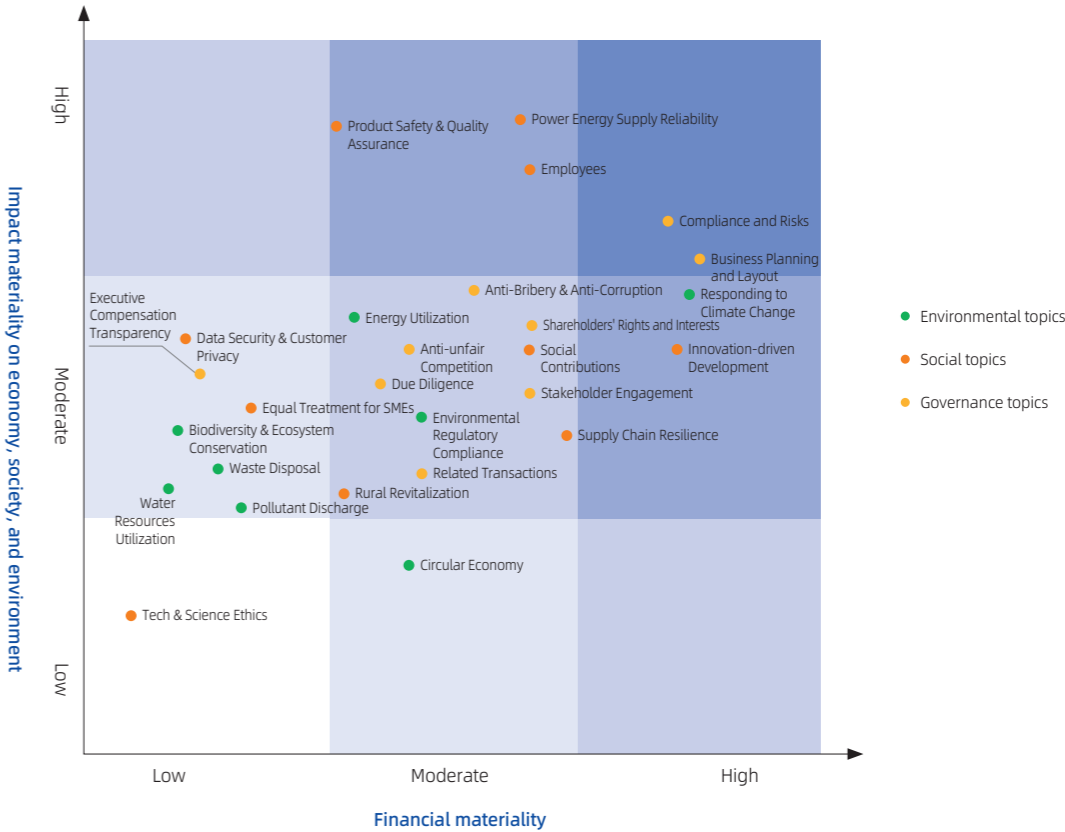
CTGR conducted a materiality assessment through stakeholder surveys, evaluating each topic based on both impact materiality and financial materiality. A total of 221 responses were received for impact materiality questionnaires, and 154 responses for financial materiality questionnaires.

Stakeholders surveyed for topic's impact materiality included employee representatives, suppliers, communities, and governments, etc. Stakeholders surveyed for topic's financial materiality included employee representatives, shareholders, customers, and creditors, etc.

Based on the double materiality feedback from stakeholders, the Company's ESG Leadership Group organized internal experts to conduct in-depth discussions and comprehensively evaluate each topic's impact materiality and financial materiality.

Establishment of a Material Topic Matrix

In 2024, based on the Company's assessment of material topics and taking into account its development and the external environment, CTGR confirmed the levels of impact materiality and financial materiality for each topic, and generated a material topic matrix. Four topics with financial materiality were identified, including "Innovation-Driven Development", "Climate Response, Compliance and Risks", and "Business Planning and Layout".



Improvement and Disclosure

The Company continuously monitors the updates to domestic and international ESG policies, industry development trends, and stakeholder feedback to refine its topic list and improve the topic identification process. In accordance with the Guidelines, the Company gives priority to the disclosure of material topics in the Report.

► Due Diligence and Stakeholder Engagement

Due diligence

CTGR has placed sustainable development at the core of its corporate strategy. In alignment with international standards and domestic practices, and in accordance with the due diligence disclosure requirements specified in the Guidelines for sustainability reporting, the Company conducted a comprehensive assessment of its business operations. The company has established a dynamic monitoring mechanism covering key areas including climate change, energy utilization, and labor rights, enabling deep integration of sustainability goals into core business operations.

Responsible institutions and roles	The Company has established a Strategy and Sustainable Development Committee as its ESG governance body. The Committee oversees the review of ESG strategic goals, monitors operational alignment with sustainability objectives, standardizes due diligence processes, and ensures their integration into the corporate governance framework.
Scope of due diligence	The Company has implemented an integrated due diligence system spanning its entire value chain, encompassing core functions from investment and M&A to project development, operations management, and supply chain collaboration. The system mandates specialized assessments for projects in environmentally sensitive zones and stakeholder engagement activities, with enhanced scrutiny on material ESG topics including climate resilience, biodiversity conservation, community development, and regulatory compliance. Through systematic process integration, this framework is now institutionalized into standard operating procedures.
Sustainability risk identification and assessment	<p>A three-tiered risk assessment framework has been established, featuring Institutional Foundation - Dynamic Risk Identification - Tiered Controls, which includes:</p> <ul style="list-style-type: none">Developing a regulatory system for sustainability to define standard procedures that combine self-assessments by business departments with special audits;Utilizing ESG risk matrix tools to conduct quantitative assessment of risks related to climate transition and supply chain accountability;Incorporating industry benchmarking and scenario analysis to create a major risk rating model, which serves as an early warning system for the management team.
Sustainability risk response	<p>Strategic level: ESG risks have been integrated into the Company's comprehensive risk management system. The due diligence process is continuously refined based on feedback.</p> <p>Business level: The Company develops targeted action plans based on identified risks, regularly reviews ESG risk monitoring indicators, and integrates them into its risk management system, performance evaluation system, and ESG qualification standards for suppliers.</p>

Case | Due Diligence for M&A Projects

To standardize its renewable energy investment, merger and acquisition activities, the Company carried out specialized due diligence on the safety and environmental aspects of M&A projects, including renewable energy projects like onshore wind power, photovoltaic power stations, energy storage plants, offshore wind farms, and hybrid PV projects. The due diligence process involved document reviews, site visits, and monitoring analyses focused on work safety management systems, handling of work safety formalities, environmental compliance, resource utilization and disposal, implementation of soil and water conservation measures, acoustic environment monitoring, electromagnetic radiation assessment, and light pollution monitoring. Industry experts were invited to conduct the due diligence, generating a comprehensive due diligence report for each M&A project. The report was then reviewed by a technical expert committee to strengthen the management of safety and environmental risks at the source.





Stakeholder Engagement

■ Institutional and system development

Shareholders	The Company has established the <i>Articles of Association</i> , <i>Rules of Procedure for the General Meeting of Shareholders</i> , and <i>Investor Relations Management Measures</i> to systematically improve its corporate governance framework, and effectively enhance the Company's management execution and transparency in investor relations.
Employees	The Company has developed systems such as the <i>Employee Performance Evaluation Measures</i> and <i>Compensation Management Measures</i> to clearly specify the relevant requirements, and established relevant communication mechanisms. During the revision of compensation and performance systems, the Company follows the collective decision-making procedures, with all changes reviewed and approved by the Employee Assembly or Employee Representatives Congress.
Communities	A long-term, friendly communication mechanism has been established to promote public welfare projects in partnership with local governments, including ecological conservation, environmental management, educational assistance, and healthcare support. The Company also continues to deepen the model of co-governance with communities, contributing to the goal of achieving common prosperity.
Governments	The Company has established a multidimensional government-enterprise collaboration system, fostering a horizontally integrated and vertically aligned collaboration framework, and continues to enhance a strategic cooperation framework with mutual empowerment. The Company is committed to creating a healthy, two-way interactive ecosystem and building friendly cooperative relationships to reinforce mutual benefit through strategic trust.
Partners	A long-term communication and collaboration mechanism has been put in place, including hosting business matchmaking meetings to deepen industrial chain synergy and innovation. A sound risk warning and dispute resolution system has been established, with contract terms clearly defining the responsibilities, rights, and exit mechanisms to safeguard the legitimate interests of all parties.
Customers	The Company has established an effective communication and collaboration mechanism, expanding collaboration opportunities through regular visits and discussions. It also clarifies the confidentiality protocol and implements relevant non-disclosure agreements in accordance with its contract management requirements.
Creditors	The Company has issued the <i>Capital Management Measures</i> , <i>Direct Financing Management Measures</i> , and <i>Information Disclosure Measures for Credit Bonds</i> to ensure proper disclosure of financing-related information and to strengthen the management of investor and creditor relationship, thus developing strong, cooperative relationships with creditors.

Communication practices

Stakeholders	Expectations and demands	Communication channels	Response measures
 Shareholders	<ul style="list-style-type: none">• Business performance• Strategic development• Research & development technologies• Risk management• Dividends and other profit distributions	<ul style="list-style-type: none">• Information disclosure by stock exchange• The Company's official website and self-operated media platforms• Performance briefings• Roadshows and engagement activities	<ul style="list-style-type: none">• Periodic reports and announcements• General Meeting of Shareholders• Roadshows, reverse roadshows, and analyst meetings• Hosting visitors and conducting discussion sessions• Establishing an investor hotline and email, and utilizing the e-Interactive platform of Shanghai Stock Exchange
 Employees	<ul style="list-style-type: none">• Employee's rights and interests• Compensation and welfare• Career development	<ul style="list-style-type: none">• Employee Representatives Congress• The Company's cultural and sports activities• Employee training• Chairman's mailbox• Corporate culture development	<ul style="list-style-type: none">• Labour Union• Daily communication• Employee health measures• Protection of female employees' rights and interests• Employee diversity and equality
 Communities	<ul style="list-style-type: none">• Public welfare cause• Public relations• Harmonious communities	<ul style="list-style-type: none">• Community communication and engagement• Public welfare activities• Rural revitalization	<ul style="list-style-type: none">• Charitable donation activities• Community co-building activities• Implementing brand development projects• Supporting education through intellectual empowerment and assisting in the construction of basic educational facilities• Creating employment opportunities in paired assistance areas
 Governments	<ul style="list-style-type: none">• Economic development• Safety and environmental-friendliness• Tax payment according to law• Creating employment opportunities, etc.	<ul style="list-style-type: none">• Undergoing inspections• Communication and reporting• Research and discussions• Undergoing audits	<ul style="list-style-type: none">• Strategic cooperation• Information submission• Feedback on policies and standards

Stakeholders	Expectations and demands	Communication channels	Response measures
 Partners	<ul style="list-style-type: none">• Mutual benefit and win-win cooperation• Equal and long-term cooperation• Compliance with procurement management	<ul style="list-style-type: none">• Open procurement• Business cooperation• Experience exchange• Technical cooperation• Contract performance• Honest operations	<ul style="list-style-type: none">• Communication with management• Cooperation agreement• Product and service selection
 Customers	<ul style="list-style-type: none">• Customer information protection• Customer management (maintenance and development)	<ul style="list-style-type: none">• Visit and survey• Customer satisfaction survey• Contract performance	<ul style="list-style-type: none">• Regular visits and communication with customers• Ensuring a long-term communication model
 Media opinions	<ul style="list-style-type: none">• Responsible publicity and marketing• Information disclosure	<ul style="list-style-type: none">• Performance briefings• Media roadshows• Information disclosure matrix• Company official website	<ul style="list-style-type: none">• Regular communication with media and institutions• Inviting media to attend annual and interim performance briefings• Periodic release of company information via official press releases• Organizing public events open to media
 Environment	<ul style="list-style-type: none">• Green energy• Ecological Restoration• Biodiversity conservation	<ul style="list-style-type: none">• Organizing public welfare association activities• Participating in environmental initiatives and actions	<ul style="list-style-type: none">• Adhering to the policy of taking clean energy as the primary responsibilities and key business• Continuously improving institutional mechanisms• Ecological Restoration• Disclosing environmental data• Regularly publishing ESG and environment-related reports


ESG Governance

► Corporate Sustainable Development Governance Structure

Sustainable Development Governance System

The ESG governance system of CTGR covers both the headquarters and its affiliated companies. The Company has established a three-tier governance framework comprising the Governance Level, Management Level, and Execution Level and a five-tier sustainable development governance structure consisting of the Board of Directors, Special Committees, Leadership Groups, Working Teams, and various departments and subsidiary with a comprehensive structure, clear hierarchy, well-defined responsibilities, and efficient operations, forming a sustainable development governance framework that spans decision-making, communication, and practical execution to drive the standardized and systematic implementation of sustainable development work.


Staffing and scope of authority

Hierarchy	Architecture	Staff composition	Scope of authority
 Governance level	Board of Directors	Members of the Company's Board of Directors	<ul style="list-style-type: none">• Review and approve major ESG matters and key initiatives of the Company.• Incorporate ESG-related risks into the Company's comprehensive risk management system and conduct effective supervision.• Other ESG-related responsibilities prescribed by laws, administrative regulations, or the Company's articles of association.
	Strategy and Sustainable Development Committee	The Company's directors with extensive experience in the power industry, corporate management, and investment management	<ul style="list-style-type: none">• Study important matters related to the Company's ESG management system and submit recommendations to the Board of Directors.
 Management level	ESG Leadership Group	President serves as team leader; Company leader in charge of ESG work and Board Secretary serve as deputy team leaders; heads of departments serve as members	<ul style="list-style-type: none">• It is responsible for the overall coordination of the Company's ESG work. The ESG Leadership Group sets up an Office as the daily working body, assisting the leadership group in coordinating and implementing daily ESG management tasks.
 Executive level	ESG Working Group	ESG liaisons from each department	<ul style="list-style-type: none">• Promote the Company's ESG work, improve management systems and processes, and establish and optimize the ESG indicator system.• Analyze ESG-related risks, opportunities, and impacts on the business in conjunction with risk management and internal controls, and assist in supervising the ESG work implementation effectiveness.
	Each department (subsidiary)	Full-time or part-time personnel with a thorough understanding of ESG work and the Company's business	<ul style="list-style-type: none">• Implement specific ESG tasks, integrate the department's ESG indicators into daily operations, identify the potential of business sustainability, and improve the corporate value.• Compile, organize, and submit work information of the respective departments and subsidiaries.


Work Tasks and Goal Setting

Overall Objectives


The Company has fully integrated the ESG principles into its strategic decision-making and daily operations, and established a sustainable development mechanism that spans the entire lifecycle, aiming to achieve high-quality development and sustainable value creation. It promotes the large-scale development of renewable energy sources such as wind power and solar energy, advances quality and quantity in tandem, and takes multi-pronged measures to enhance the development quality and effectiveness. Innovative models such as "Renewable Energy + Ecological Restoration" and "Renewable Energy + Rural Revitalization" have been established, with strong emphasis placed on technological innovation and demonstration applications to strengthen the Company's core competitiveness. By building a comprehensive ESG management system, the Company focuses on improving its ESG performance and driving high-quality development.

Environmental

- Promoting green energy transition
- Strengthen environmental protection
- Implementing biodiversity conservation
- Strengthening responses to climate change

Social

- Advancing consumer assistance
- Improving employees' sense of happiness

Governance

- Optimizing corporate governance
- Building differentiated development advantages

Building Professional Capabilities in Sustainable Development

A multi-tiered training system has been established to continuously enhance the Company's professional capabilities in the field of sustainable development. ESG work is integrated into the Company's annual training plan, with industry experts invited to deliver specialized training sessions focused on ESG policy trends, industry development, and best-practice case studies to ensure that the Board of Directors and management stay informed of the latest ESG development. At the same time, the Company actively conducts in-depth learning programs, develops various ESG indicator systems, and broadens employees' ESG knowledge to promote deeper integration of ESG principles into business operations.

Digitalization of Sustainable Development

In 2024, with a focus on the "Smart CTGR" development goal, the Company implemented key initiatives including autonomous and controllable technology substitution, large-scale application of the BeiDou Navigation Satellite System, and the intelligent transformation and upgrading of production and operations.

Efforts were made to accelerate the intelligent upgrades and construction, transition the scheduled maintenance model of the fault warning system to predictive maintenance, and reduce resource consumption in alignment with the green development philosophy.

A centralized video surveillance platform was established to realize the real-time monitoring of critical on-site operations, effectively ensuring employee safety.

The Company continued to enhance its digital and intelligent integrated management capabilities, strengthen data governance, and optimize the construction and management platform. It also expanded digital delivery applications, and further leveraged the aided decision-making role of big data to effectively improve the corporate governance level.



► Reporting of Sustainability-related Information

In accordance with the requirements of the SASAC and the ESG disclosure guidelines of the Shanghai Stock Exchange, CTGR has standardized its ESG disclosure content and improved the accuracy of its information disclosure in alignment with domestic and international evaluation indicators and industry best practices. Under the leadership of the Board of Directors, the ESG Leadership Group convenes ESG-related meetings on an irregular basis, while the ESG Working Group regularly reports sustainability-related matters to the Strategy and Sustainable Development Committee and the Board.

The Company discloses ESG policies and practice summaries periodically through its annual ESG report as well as its annual and semi-annual reports. ESG updates are also published in real time on the Company's official website. For key topics, information is simultaneously shared through the submission of ESG information to rating agencies, performance briefings, and investor Q&A sessions to ensure that the information is disclosed comprehensively, accurately, and timely.

Disclosure content	Disclosure channel	Disclosure frequency
ESG practice ESG policy	Official website News media Investor Q&A	Real-time
Key ESG topics	ESG information declaration to rating agencies Performance briefings Investor Q&A	Monthly / quarterly / annually
Summary of ESG practices Summary of ESG policies Summary of key ESG topics	ESG report Annual report/Semi-annual report Special report on climate response Special report	Annual /Semi-annual
Study on ESG issues Sustainable development strategy	Special topic release Voice of the industry	Irregular/Long-term

► Supervision and Evaluation Mechanism

Mechanism	Specific actions
 Supervision mechanism	The Board of Directors formulates the Company's sustainable development strategic plan and defines the ESG supervision responsibilities of the Strategy and Sustainable Development Committee. The Strategy and Sustainable Development Committee holds dedicated meetings to review the Company's ESG reports, assess the impact, risks, and opportunities of key sustainability topics, and promote the development and implementation of response measures, thereby advancing the Company's differentiated, high-quality, and sustainable development.
 Performance evaluation	Key assessment areas include renewable energy project development, ecological environment protection, technological innovation, work safety, and compliance management. These are incorporated into the performance evaluation indicators of the Company, relevant departments, and affiliated companies. In accordance with relevant evaluation procedures, performance reviews are conducted for corresponding leaders, with the evaluation results linked to their compensation, thus establishing a transmission system and governance framework with reinforced fulfillment of responsibilities at every level.





Special Topic 1

Renewable Energy+

Treatment of Subsidence Areas
Revitalizes Communities, and
Wind-Solar-Storage Empowers
Eco-harmony

Aqua-PV Sparks Rural Revival,
and Agri-PV Paints Prosperity



Special Topic 1

Renewable Energy+

CTGR has deeply integrated ecological governance with industrial development through its "Renewable Energy+" model, achieving multidimensional goals such as environmental rehabilitation, resource efficiency improvement, and livelihood improvement. The Fuyang Project in Anhui has driven the rebirth of a subsidence area through technological innovation, while the Wan'an Project in Jiangxi has revitalized the rural economy via industrial synergy - both serving as examples of ESG practices. Moving forward, CTGR will further advance the "Renewable Energy + Ecology" model and expand into smart energy, carbon sink development, and other emerging fields, contributing China's solutions to global green transformation.



Case I: "Wind-Solar-Storage Hybrid" Project in Coal Mining Subsidence Area in Fuyang City, Anhui Province

Background

To achieve ecological restoration and industrial transformation, CTGR has proactively aligned with China's carbon peaking and carbon neutrality strategy and innovatively proposed a "wind-solar-storage hybrid" solution. This transforms the coal mining subsidence area in Fuyang City, Anhui Province into a clean energy base. As the country's largest floating PV power station by capacity, the project sets a benchmark for comprehensive treatment of subsidence areas, demonstrating the Company's foresight and execution in ecological governance.

Case overview

With a total installed capacity of 1.2 GW, the Fuyang base project includes a floating PV power station with the installed capacity of 650 MW, covering 13,000 mu (2,141.58 acres) of idle water surface in the coal mining subsidence area. With nearly 1.2 million bifacial double-glass PV modules and over 2,000 high-efficiency inverters installed, the project generates electricity of over 700 GWh annually. Through the "floating PV + subsidence remediation" model, CTGR has repurposed abandoned waters, eliminated black-odorous water bodies, and restored ecological landscapes. It has also incorporated a smart O&M system with drone-assisted inspections in the project, enabling "low-manning" efficient management.



ESG highlights

Environmental

Ecological restoration: CTGR has remediated black-odorous water bodies, improving regional water quality and biodiversity.

Low-carbon transformation: Its annual power generation has replaced about 220,000 tonnes of standard coal, significantly reducing carbon emissions.

Efficient utilization of resources: CTGR has transformed the subsidence area into a valuable asset, enabling three-dimensional land development.

Employment boost: CTGR prioritized the employment of local labor during the construction period and has provided long-term jobs during the O&M period.

Rural revitalization: CTGR has increased farmers' income through collection of land lease fees and provision of employment opportunities.

Technical innovation: CTGR has adopted bifacial double-glass modules, boosting power generation efficiency by 24%.

Smart management: Drone-assisted inspections have improved efficiency and reduced O&M (personnel) costs.

Ecological benefits: CTGR has enhanced water quality and restored the aquatic ecosystem in the subsidence area.

Economic benefits: With over 700 GWh of annual electricity output, the project drives regional GDP growth.

Social benefits: CTGR has established a replicable model of "ecological remediation + industrial revitalization" for similar regions nationwide.



Case II: "Aqua-PV + Agri-PV" Project in Wan'an County, Jiangxi Province

Background

To support Wan'an County, Jiangxi Province in establishing a new green development model, CTGR has adopted its "Renewable Energy+" model and leveraged local resources to innovatively develop an integrated "Aqua-PV + Agri-PV" project for synergy of clean energy production with eco-agriculture. This project is a vivid practice of CTGR's implementation of the concept that "lucid waters and lush mountains are invaluable assets", demonstrating CTGR's responsibility in rural revitalization.

Case overview

The Shaokou PV Power Station in Wan'an has an installed capacity of 100 MW, utilizing 1,800 mu (296.53 acres) of idle water surface and barren land to create a three-dimensional model of "power generation above, aquaculture and cultivation below." The PV panel coverage on the water surface suppresses algae growth, reduces water evaporation, and improves fish quality, resulting in a 30% increase of fish prices. On land, forage grass is cultivated for soil conditioning. The project drives the planning for integration of culture and tourism, driving green rural development.



ESG highlights

Environmental

Water resources protection: PV panel coverage reduces water surface evaporation by 30% and improves reservoir quality.

Eco-agriculture: Forage grass planting under panels rehabilitates barren land and increases organic matters in the soil.

Social

Industrial integration: The aqua-PV model has promoted green aquaculture and raised farmers' income.

Employment support: During the construction period, the project created jobs for over 1,200 local workers.

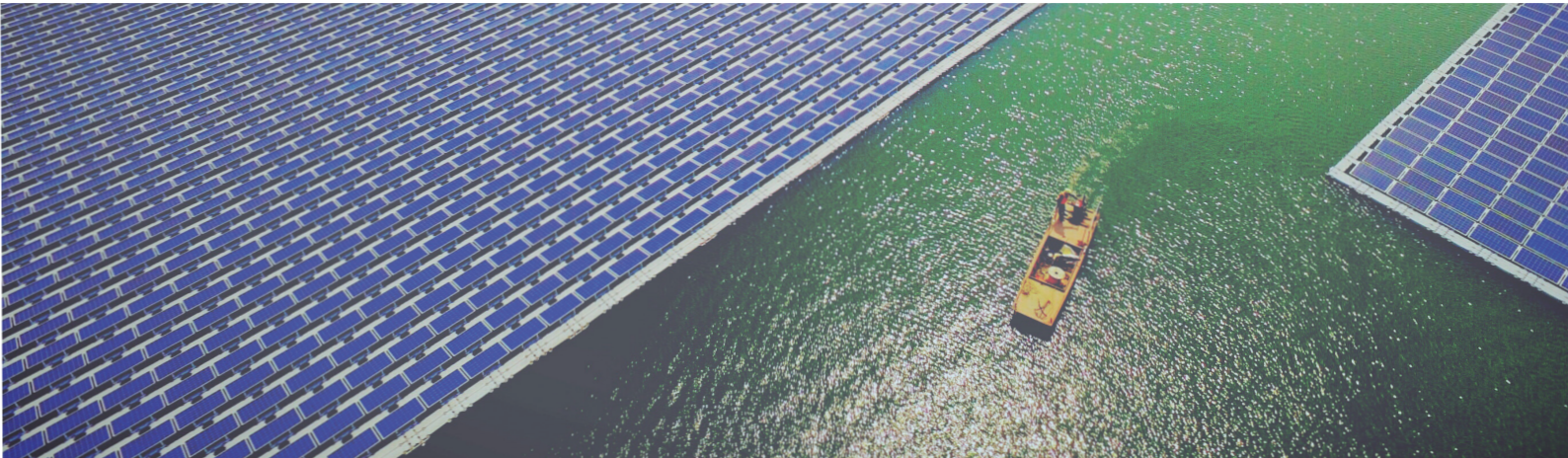
Community co-building: CTGR partnered with the local government to provide skills training, enhancing villagers' engagement.

Benefits

Ecological benefits: Suppress algae growth in water bodies and enhance soil fertility in the forage grass cultivation area.

Economic benefits: Increase fishery quality and forage grass area, and utilize 1,800 mu (296.53 acres) of idle water surface and land to boost villagers' income.

Social benefits: Form a "PV+agriculture+cultural tourism" industrial chain and inject green momentum into rural revitalization.



Battling Summer Peaks with
Reliable Power Supply

Demonstrating Responsibilities
by Defending Winter Extremes
with Warmth for All

 Special Topic 2

Power Energy Supply Reliability





Special Topic 2

Power Energy Supply Reliability

In 2024, intensified global climate change continued to create energy and power supply pressures during peak periods in certain regions. Power energy supply reliability is not only vital for household living standards but also serves as a critical pillar for economic development and social functioning, particularly during summer peak demand and winter heating seasons, and major holidays when power supply stability directly impacts socioeconomic functioning.

Amid complex power supply landscape, CTGR has fully implemented power supply arrangements and plans of the CPC Central Committee, the State Council and the Company by developing a work plan for guaranteed power supply detailing measures for supply guarantee to effectively fulfill supply guarantee responsibilities.

In 2024, CTGR successfully accomplished power supply missions with a high sense of responsibility and mission, demonstrating the responsibility of a central state-owned enterprise. Moving forward, CTGR will continue to enhance power supply capabilities upholding the philosophy of "green development with unwavering responsibility", thereby supporting national energy security and economic development.

Development of measures for strengthened management

CTGR has fully implemented power supply arrangements and plans of the CPC Central Committee, the State Council and the Company by detailing work measures. CTGR has established a dedicated Leading Group and Group Office for Power Energy Supply Reliability, and formulated a comprehensive power energy supply reliability plan, defining guarantee priorities and tasks for each period. Through regular meetings on supply guarantee, strategies are promptly adjusted and optimized to ensure orderly progress.

Supervision and inspection for implementation

CTGR has enhanced risk control by establishing a rigorous supervision and inspection mechanism, with a focus on source governance of risks and hazards. Through inspection-driven improvements, it has promoted the implementation of a dual prevention mechanism for work safety to ensure the sustained and stable work safety during the energy and power energy supply reliability period. Its regular safety inspections of key power station facilities has ensured optimal equipment performance. During summer peak demand and winter heating seasons, and major holidays, CTGR has strengthened shift management and information reporting, and increased inspection frequency to guarantee stable operation of equipment under extreme temperatures.

Smart control and big data analysis

Empowering renewable energy upgrades through digital transformation, CTGR has set a new benchmark in smart power operation and maintenance.

Breakthroughs in the construction of intelligent power stations: Intelligent power station demonstration projects in Gansu, Qinghai, and Ningxia feature full-chain real-time monitoring and intelligent dispatch in power production via smart management systems, establishing a digital infrastructure model for Northwest China.

Smart production management process: Innovative intelligent terminal devices enable automated process monitoring and standardized control, creating a 3D O&M network with "cloud visualization and data synergy" to enhance cross-regional coordination and onsite safety.

Predictive O&M model redefining industry standards: Leveraging big data analysis technology, CTGR pioneered a sub-health early-warning system for equipment, shifting the O&M model from passive maintenance to predictive maintenance. This significantly improves maintenance efficiency of equipment while establishing a forecasting system for smart power demand to guarantee grid dispatch precision and supply reliability.

Case I | Guaranteeing power supply during summer peak demand for electricity

During the summer of 2024, prolonged heatwaves across China pushed electricity demand to record highs. CTGR immediately activated emergency response protocols, with its regional power stations implementing multi-pronged measures to fulfill energy supply responsibilities.

At the Jinchang Maintenance Center in Gansu, comprehensive equipment inspections and pre-operational tests were conducted across all affiliated power stations to eliminate potential risks and "strengthen operational resilience". The Wuwei Maintenance Center in Gansu performed infrared temperature checks on equipment of affiliated booster stations to prevent heat wave-induced malfunctions of the equipment. In Ningxia, O&M personnel at the Hongsibao Tongxin Wind Farm systematically inspected inlet/outlet valve pressures for all turbines to ensure optimal cooling performance of each turbine. Meanwhile, the Acheng Wanxing Wind Farm in Heilongjiang executed special equipment patrols to maintain optimal operational conditions of the equipment.



Case II | Guaranteeing power supply during winter peak demand for electricity

As winter approached, temperatures gradually dropped and electricity demand reached its peak. To ensure steady power supply, the Company implemented science-based, coordinated winter preparedness measures, making every effort to ensure power supply during winter peak demand.

The Shuangliao Fuxian PV Power Station in Jilin established continuous tracking and investigation mechanisms to address vulnerabilities identified during autumn safety inspections, and promptly eliminated hidden dangers and defects of equipment to ensure the safe and steady operation of the station. Through a combination of remote monitoring and onsite checks, the station enhanced control of critical equipment such as PV modules, inverters, and combiner boxes. Night patrols and special inspections were conducted at the station, with real-time parameter monitoring ensuring optimal equipment performance in the winter. The station also stockpiled emergency supplies to guarantee rapid response capability in case of any emergency.



Harnessing Innovation, Green
Intelligence Charts Renewable
Energy Horizons

Synergizing R&D and Production,
Smart Networks Forge the Engine
for Development

 Special Topic 3

Scientific and
Technological Innovation



Special Topic 3

Scientific and Technological Innovation

Innovation-driven development

CTGR has adhered to innovation-driven development and focused on the transformation, digitization, and breakthroughs in reserve technologies in the renewable energy sector. It is committed to improving the efficiency and stability of renewable energy utilization while accelerating cutting-edge technology deployment. Besides, it has improved its technological innovation management system, systematically advancing risk-opportunity management with emphasis on talent cultivation, R&D investment, and platform development. Through technological innovation, it leads green, low-carbon development and demonstrates best practices for building a new energy system.

Governance

The Company has established and improved a modern technology governance system aligned with new quality productive forces and enhanced its governance capabilities. It has also implemented corporate technology development plans to guide its systematic operations of technological management.

The Company has improved the technological innovation system by formulating 11 technological innovation management policies including the *Science and Technology Management System* and the *Work Management Measures for Science and Technology Committee*, fully stimulating innovation vitality to ensure efficient and precise execution of technological innovation initiatives.

Strategy

The Company maintains its commitment to leveraging technological innovation for high-quality development and advances technological breakthroughs and application optimizations in the renewable energy sector on all fronts. The Company organizes the formulation of a scientific & technological innovation plan and builds a scientific & technological innovation mechanism. Besides, it analyzes challenges facing technological innovation and existing issues, and clarifies overarching strategies, development targets, main tasks, and major initiatives for technological innovation.

Type	Risk/opportunity name	Description	Impact cycle
Risk	Risk of R&D failure	New technology research and development involves high investment, long cycles, and potential failure risks that may lead to resource wastage.	Short-to-medium term
	Risk of technological obsolescence	Rapid technological iteration may cause equipment or techniques to become outdated if not promptly updated, affecting competitiveness.	Short-to-medium term
Opportunity	Application of new technology	Efficient PV modules and large-capacity wind turbines can significantly enhance the generation capacity of unit equipment.	Medium-to-long term
	Application of digital technology	Intelligent power stations and other digital solutions can reduce labor costs and improve management efficiency.	Medium-to-long term



Impacts, risks, and opportunities management

The Company closely aligns with development needs, focusing on cutting-edge industry technologies. It systematically advances key R&D initiatives in renewable energy, digitalization, and emerging energy formats and establishes diversified technology reserves. Through technology testing and demonstration, it supports and drives high-quality development of its renewable energy business.

Gathering talents to strengthen the foundation

Adhering to the principle that "talents are the primary resource," it has built a multidisciplinary R&D team. Its R&D team had **391 members** in the year. It collaborated with multiple universities such as Tsinghua University and Nankai University to train specialized talents to enhance the talent strength in the field of engineering research and consolidate the reserve of innovative talents.

Prioritizing investment to consolidate advantages

CTGR's R&D investment was **763 million** in the year, accounting for 2.56% of the main business revenue, with a focus on strategic areas such as green and low-carbon technologies, and intelligent equipment. CTGR strengthened core technology research and development and promoted digital transformation. It also enhanced the industrial chain resilience and captured emerging market opportunities.

Building academician-led platforms to promote translation of R&D outcomes

Academician Yin Yueping's Workstation and Academician Zhang Xiaoye's Workstation were approved to be built to integrate industry-academia-research resources and address common technological challenges in the industry.



Inauguration Ceremony of Academician Yin Yueping's Workstation



Inauguration Ceremony of Academician Zhang Xiaoye's Workstation

Indicators and goals

- ✓ To complete annual R&D investment.
- ✓ To carry out core technology research and development, and complete annual research tasks for national-level and provincial or ministerial-level scientific research projects.
- ✓ To deliver multiple core technological achievements in alignment with the Company's industrial synergies.
- ✓ To meet intellectual property indicators.

Scientific research and development

The Company successfully passed acceptance reviews/comprehensive performance evaluations for 4 national-level and provincial or ministerial-level projects, including the "Research on Intelligent Operation and Control Technologies for Offshore Wind Farms". As of the end of 2024, the Company had 8 ongoing national-level research projects and 4 ongoing provincial or ministerial-level research projects.

Scientific and technological achievements

In 2024, the project titled "Complete Set of Technologies and Equipment for Safe and Efficient Offshore Wind Power Development and Industrialization" which the Company participated was awarded the **First Prize of National Science and Technology Progress Award**. Two additional projects - "Key Technologies and Applications of Autonomous, Controllable, Multi-level Collaborative, Intelligent Management System for Renewable Energy" and "Grid-friendly Cluster-based Intelligent Evolutionary Prediction Technology and Engineering Application for Wind-Solar Power Stations" - received the **First Prize of Electric Power Innovation Award 2024 from China Electricity Council**. The "Concentrated Solar Power System for a 100MW-class Solar Thermal Power Plant with Multiple Towers and a Single Receiver" was included in the **Fourth Batch of First-of-its-kind Major Technology Equipment List in the Energy Sector announced by the National Energy Administration**.

Throughout the year, 1,441 patents were applied for, including 546 invention patents, and 18 international patents; 575 patents were authorized, including 105 invention patents, and 18 international patents; and 37 software copyrights were registered. As of the end of 2024, the Company had 1,258 valid patents, including 205 invention patents, and 52 international patents, and it had 102 software copyrights.

Case

The Company innovatively developed a renewable energy management and control system featuring flexible architecture, strong scalability, and high intelligence, covering all business scenarios including wind, solar, hydro, and energy storage. In-depth research and application were conducted for the project in such areas as autonomous and controllable ultra-large-scale operation and maintenance platforms, panoramic renewable energy modeling, equipment analysis and warning, intelligent monitoring, and comprehensive security guarantee, significantly enhancing the intelligent operation level of renewable energy power stations. The project has been widely recognized for its social and economic benefits and held broad prospects for promotion and application. The project won the First Prize of Power Innovation Award 2024 granted by China Electricity Council.

The Company developed an "Intelligent System of Renewable Energy Station Based on Multi-source Perception and Cloud-Edge Integration," establishing a scalable, replicable and shareable intelligent station access method for the renewable energy industry. Addressing core challenges such as insufficient efficiency of intelligent technology integration applications, incomplete mechanisms for coordinating and sharing technical resources, and shortage of supply of AI algorithm models, the system offered a comprehensive solution covering optimized technology architecture, innovative resource integration mechanisms, and algorithm ecosystem development. This achievement was recognized as an outstanding innovation practice case in the 2024 Energy & Power "Digital Intelligence Cup" competition by the Power Big Data and AI Subcommittee of the China Electric Power Promotion Council.

The Company conducted China's first demonstration application research on 66kV on-site step-up and collection systems for onshore wind farms, addressing multiple issues associated with traditional 35kV systems, including too many circuits, congested line channels, too long lines, and high power losses. The proposed 66kV solution reduces land use, improves power generation efficiency, and drives technological progress in the industry. This innovation was selected as a typical case of green technology innovation in 2024 by the Patent Protection Association of China.

Tech & Science Ethics

The Company's core business concentrates on the development, construction and operation of clean energy sources such as wind power and photovoltaic energy. Its research activities primarily involve the application and optimization of renewable energy technologies, without involving sensitive areas of tech & science ethics.





We have upheld the concept of prioritizing the natural ecosystem and green development, deeply implemented the national "Dual Carbon" strategy, closely integrated the optimization and upgrading of energy structure with environmental protection, firmly promoted the high-quality development of clean energy, and contributed to the modernization with harmonious coexistence between humans and nature.

The SDGs addressed in this Chapter

6

CLEAN WATER AND SANITATION



7

AFFORDABLE AND CLEAN ENERGY



11

SUSTAINABLE CITIES AND COMMUNITIES



13

CLIMATE ACTION



14

LIFE BELOW WATER



15

LIFE ON LAND



Environmental Management

► Environmental Management System

Concepts and Policies

On the basis of ISO 14001, CTGR has established a complete and effective environmental protection management system, process and framework in accordance with national laws, regulations and policies related to ecological environment protection, promoted green production, green operation and green office, and fully achieved the environmental management goals for 2024.

Environmental management goals for 2024

- 1. To ensure that no environmental emergencies occur, from general ones to or extremely severe ones;
- 2. To ensure that no environmental violations occur, and that no criminal or administrative penalties are imposed;
- 3. To ensure the effective operation of the ecological environment protection management system, and ensure that its operation complies with laws, regulations, administrative licensing documents, and relevant requirements of the Company;
- 4. To ensure the effective implementation of the ecological environment protection measures, and ensure that its protection effect complies with laws, regulations, administrative licensing documents, and relevant requirements of the Company;
- 5. To achieve a **100%** fulfillment rate of administrative approval procedures for ecological environment protection (including approval procedures for major changes);
- 6. To achieve a **100%** implementation rate of "Three Simultaneities" for environmental protection and soil and water conservation;
- 7. To achieve a rectification rate of **90%** or above for ecological and environmental hazards

The Company continuously adjusted and optimized its environmental management system, obtained the certification of ISO 14001 Environmental Management System, and achieved a **100%** implementation rate of the environmental management system standards. The system covered key areas such as environmental protection, energy conservation and consumption reduction, ecological restoration, soil and water conservation, environmental compliance, and pollution prevention and control. It comprehensively identified and controlled the environmental impacts throughout the entire process of the Company's production and operation, and promoted the continuous improvement of the Company's environmental performance.

In 2024, the Company continued to improve its environmental management system. According to the requirements of the *Supervision and Management Measures for Energy Conservation and Ecological Environment Protection of Central State-owned Enterprises*, we revised four systems, namely *Management Measures for Assessment of Ecological Environment Protection*, *Management Measures for Rewards and Punishments in Ecological Environment Protection*, *Detailed Rules for Ecological Environment Compliance Management*, and *Detailed Rules for Identification and Evaluation Management of Environmental Factors*, further refining the management content and process.

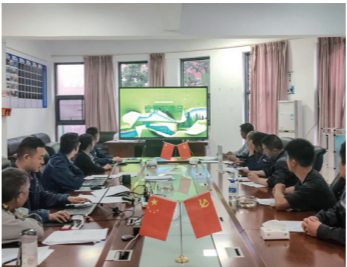
System construction

Investment and training in environmental protection

In 2024, the Company formulated the *Management Measures for Ecological Environment Protection of Construction Projects*, which integrated the management requirements for offshore wind power projects, and proposed classified and graded environmental management requirements for the Company's construction projects according to the project implementation stage.

In 2024, the Company completed a cumulative investment of CNY **219.6407** million in ecological environment protection throughout the year, and the investment in environmental protection accounted for 0.74% of its output value (revenue).

The Company organized 6 training programs on environmental protection throughout the year, with a total of more than 2,000 trainees. The training content covered various aspects, including the environmental management technology for renewable energy projects, soil and water conservation management for renewable energy projects and the use of ecological environment management systems.



Supervisory inspection

The Company focused on the goal of implementing requirements, fulfilling responsibilities and solving problems, and established a working mechanism that combines "management supervision and technology supervision". In 2024, the Company conducted supervision and inspection of ecological environment protection on 20 key projects in terms of the construction of environmental management system, implementation of "Three Simultaneities" for environmental protection and soil and water conservation, and facility operation, as well as compliant disposal of hazardous waste. The rectification rate of potential hazards exceeded **95%**, producing a good effect of "supervision" and "being supervised" resonating at the same frequency and moving in the same direction.

► Environmental compliance performance

Environmental compliance system

CTGR has established a work supervision mechanism to promote the rectification of compliance hazards by means of public supervision, timely reporting, appropriate talks and year-end assessments. At the same time, the Company enhanced guidance and services, and proposed feasible rectification plans through special meetings, expert consultations and other means to ensure timely and effective rectification of environmental risks and hazards.

In 2024, the ecological environment monitoring values of all projects of the Company met the requirements of the Environmental Impact Assessment Report Form (Book) and the Soil and Water Conservation Plan, **and no general or serious sudden environmental incidents or environmental penalties occurred.**

Compliance control for environmental protection and soil and water conservation

In 2024, the Company standardized the management of ecological environment protection for construction projects, and initiated a special inspection of environmental protection and soil and water conservation compliance procedures for construction projects. The inspection covered all projects of the Company. The Company prepared the Inspection Form on Environmental Protection and Soil and Water Conservation Compliance Procedures of All Projects of CTGR, held regular meetings to report the inspection results and rectification progress, and effectively prevented and resolved compliance risks.

In 2024, the Company organized its subsidiaries to conduct environmental compliance assessments, summarized the identification results of all subsidiaries and formed the Company's *Assessment Form for Compliance with Ecological Environment Protection Laws, Regulations and Other Requirements*. We formulated strict rectification measures for non-compliant issues, assigned responsible persons for rectification, made a detailed list of rectification tasks, clearly defined the rectification responsibilities, and carried out tracking and supervision. **In 2024, the implementation rate of "Three Simultaneities" for environmental protection and soil and water conservation reached 100%.**

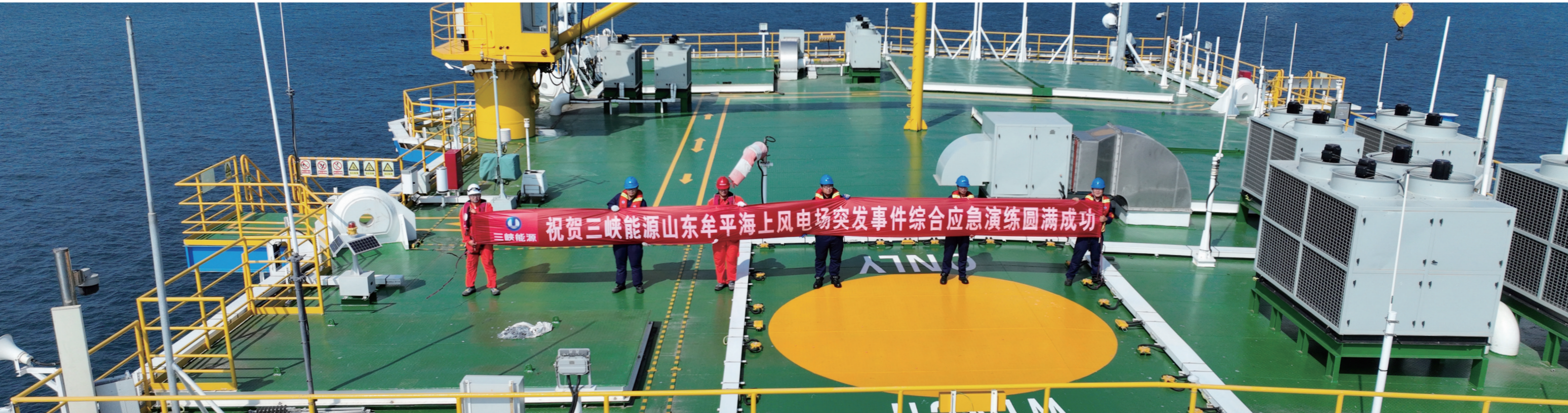
► Environmental risk prevention and control

CTGR has formulated the *Emergency Plan for Sudden Environmental Incidents*, established an Emergency Management Leading Group for sudden environmental incidents, and set up an Office for Emergency Management Leading Group and an Emergency Duty Room. Once a sudden environmental incident occurs, the Emergency Management Leading Group will establish an emergency command center based on the specific circumstances of the environmental incident to comprehensively guide the Company's work in response to the sudden environmental incident. The Company built a three-level emergency management framework through the Emergency Plan, covering all departments of the headquarters, regional companies and specialized branches, so as to achieve risk prevention and control in advance. Meanwhile, the Company laid emphasis on building a collaborative emergency response network between enterprises and local governments, established an emergency linkage mechanism with local governments, public security, environmental protection and other professional institutions, created a multi-level emergency network characterized by "information exchange, resource sharing and mutual assistance in emergency response", and comprehensively enhanced the capacity for joint prevention and control of environmental risks. **In 2024, the Company conducted a total of 19 environmental emergency drills.**

Case

On July 15th, 2024, the Company organized a comprehensive emergency drill for dealing with emergencies in offshore wind power projects, and conducted practical drills for emergencies such as natural disasters like typhoons and environmental pollution that occur during the operation and maintenance of offshore wind power projects. This effectively tested the scientific, practical and operable nature of the emergency plan, and enhanced the emergency response capabilities of the emergency team.

On October 15th, 2024, our subsidiary Lazhai Company, together with Longling Sub-Bureau of Baoshan City Ecological Environment Bureau, conducted a practical drill of the *Emergency Plan for Sudden Environmental Incidents*. A total of 32 persons participated in the drill. The drill focused on the handling procedures, measures, and information reporting of sudden environmental incidents, and effectively improved the connectivity between emergency plans of the Company and the local government.

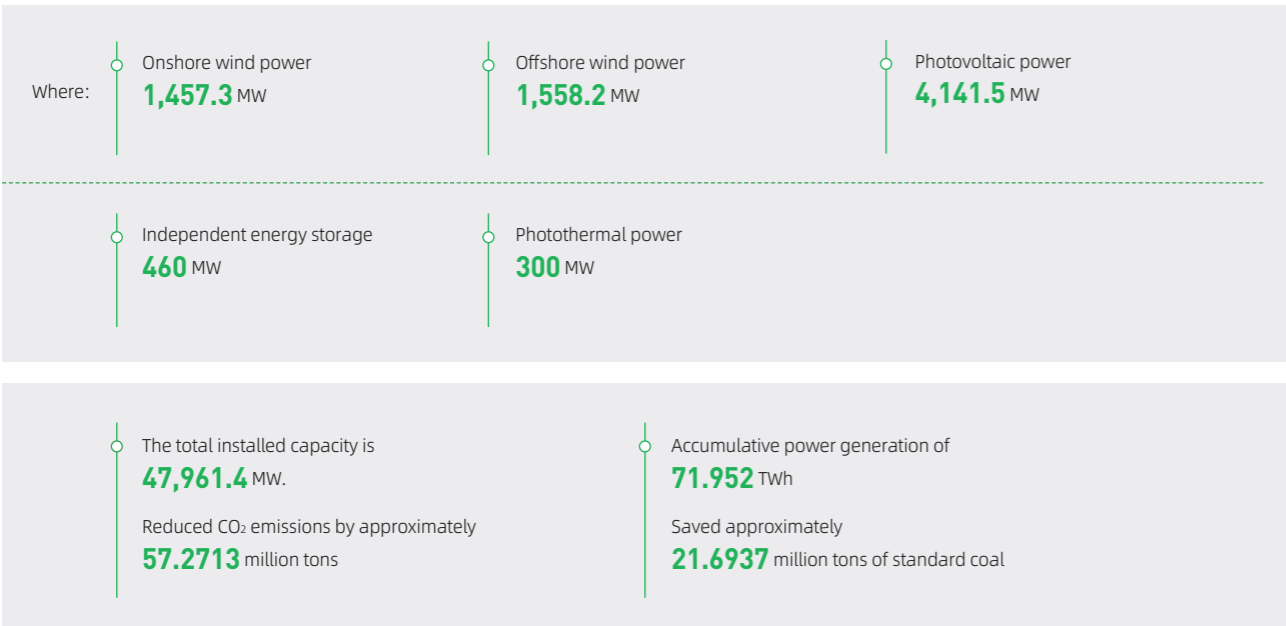


► Green and low-carbon actions

Developing clean energy

CTGR focused on the development of its main business and vigorously promoted the development and construction of large-scale renewable energy base projects; Gave full play to the advantages of regional collaboration, and strived to promote the development and construction of conventional renewable energy projects; Actively built the 1GW offshore wind power strategic base, reserved high-quality resources, promoted the realization of leadership in scale, and drove the overall development and upgrading of the industry; Gave play to the role of strategic collaboration, promoted pumped storage business in a steady and orderly manner; Made a prudent layout for new energy storage technology, and contributed to the construction of a new electricity system; Explored and expanded the application scenarios of new business forms and models to promote innovative development of the Company.

In 2024, the cumulative newly-added grid-connected capacity of the Company reached **7.917** GW.



- The headquarters of the Company actively practiced the concept of green office, and achieved the following results:
- ✓ Achieved 100% green electricity for office use
 - ✓ Installed supporting facilities for renewable energy vehicles
 - ✓ Implemented garbage classification according to national standards in the office park
 - ✓ Automatically turn off lights to save electricity in office buildings according to area types and working hours
 - ✓ Used water-saving sensor faucets in the office building area
 - ✓ Adopted an application system for all office supplies

Environmental protection activities

In 2024, the Company took the "National Energy Conservation Publicity Week" and "National Low-Carbon Day" as an opportunity, and organized a series of diversified and colorful activities. During these activities, all subsidiaries posted more than **340** themed promotional banners and posters; Organized employees to watch the themed promotional video titled "Green, Low-Carbon and Beautiful China", with a total of over **3,000** viewers; Distributed more than **500** copies of promotional brochures for energy conservation and carbon reduction.

The Company organized the "Environmental Protection Week" activity, focused on the theme of "comprehensively promoting the construction of a beautiful China", and held a quiz activity on environmental protection, with a total of **1,463** participants. By organizing a series of environmental protection publicity activities, we have promoted the Xi Jinping's Thought on Ecological Civilization, raised the awareness of energy conservation and carbon reduction, and created a strong atmosphere of ecological environment protection.



Responding to Climate Change

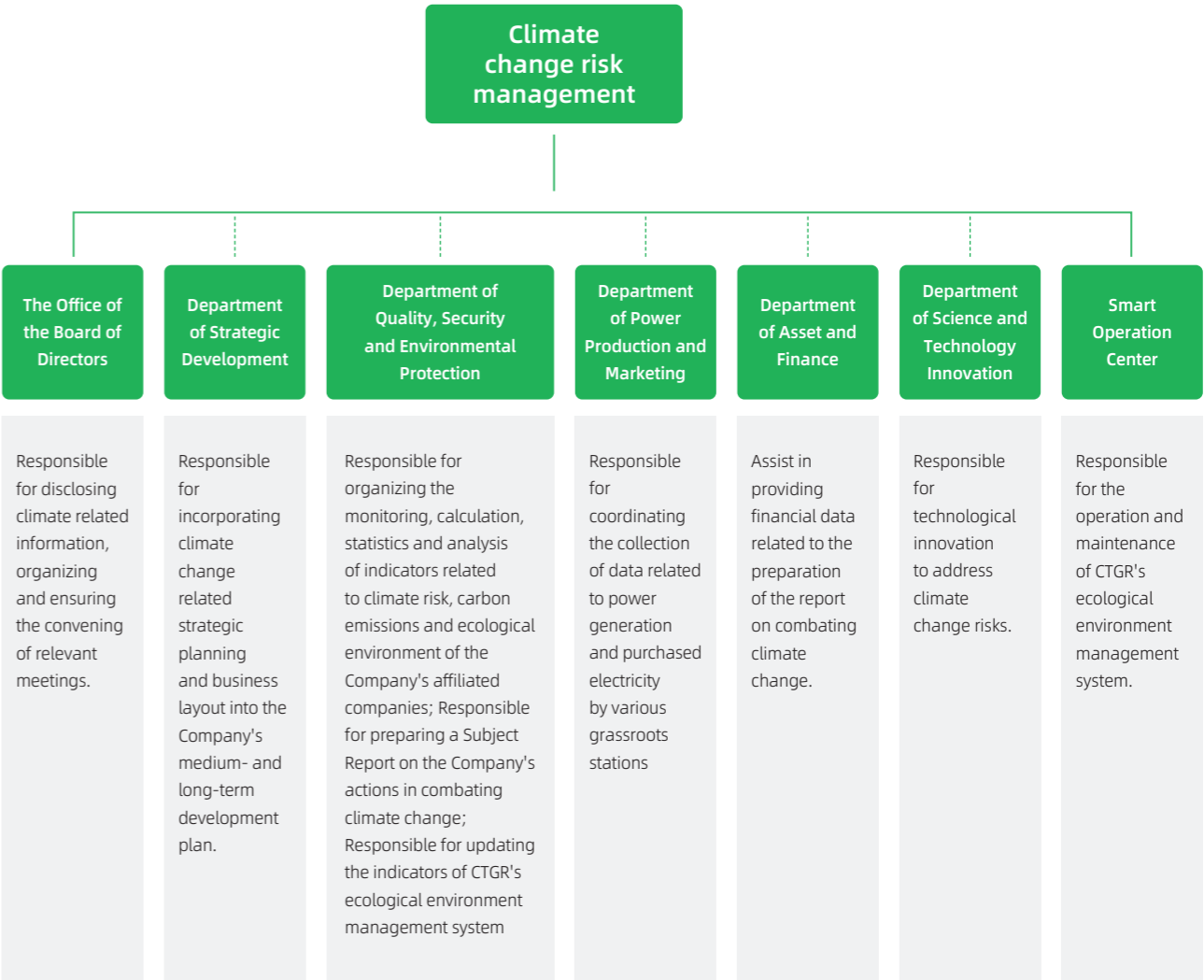
CTGR has always followed the concept of green development, actively responded to the national "Dual Carbon" strategy, and comprehensively promoted the construction of a climate governance system. In April 2024, the Company disclosed for the first time in high quality the "Special Report of Taskforce on Climate-related Financial Disclosure (TCFD) of CTGR" to the public, comprehensively demonstrating the Company's management measures and action plans for addressing climate change risks to investors and highlighting the Company's role as a central state-owned enterprise in green economy and low-carbon transition of energy structure.

Governance

CTGR incorporated the action of combating climate change into the governance system of its Board of Directors and the management system of the Company. The Board of Directors and management held regular meetings to review and approve major ESG issues and key tasks related to combating climate change, issued multiple management systems to establish a management system for combating climate change, built an organizational structure for tackling climate change, clearly divided responsibilities among departments, and provided organizational support for addressing climate change.

In May 2024, the Company invited industry experts to provide specialized training on climate risks and opportunities, and focused on the urgency of combating climate change, the historical evolution of TCFD and scenario analysis of climate risks and opportunities to raise the awareness of all employees of the Company regarding issues related to climate change.

Management System	
ESG management	Rules of Procedure for the Strategy Committee of the Board of Directors of China Three Gorges Renewables (Group) Co., Ltd.
	Management Measures for Environmental, Social Responsibility and Corporate Governance of China Three Gorges Renewables (Group) Co., Ltd.
Climate change risk management	Management System for Coping with the Risks of Climate Change of China Three Gorges Renewables (Group) Co., Ltd.
Emergency management	Emergency Management System of Climate Change of China Three Gorges Renewables (Group) Co., Ltd.
	Comprehensive Emergency Plan for Unexpected incidents of China Three Gorges Renewables (Group) Co., Ltd.
	Management Measures for Flood and Typhoon Prevention of China Three Gorges Renewables (Group) Co., Ltd.
	Management Measures for Emergency Plan of China Three Gorges Renewables (Group) Co., Ltd.
	Detailed Rules for Emergency Management of Offshore Wind Power of China Three Gorges Renewables (Group) Co., Ltd.
	Responsibility List for Emergency Management of China Three Gorges Renewables (Group) Co., Ltd.
Risk control system	Management System for Risk Management and Internal Control of China Three Gorges Renewables (Group) Co., Ltd.
	Management Manual for Internal Control of China Three Gorges Renewables (Group) Co., Ltd.
	Key Points of the "Five-in-One" Work for the Legal Compliance Risk Internal Control System of China Three Gorges Renewables (Group) Co., Ltd. in 2024



► Strategy

The Company deeply implemented the Xi Jinping's Thought on Ecological Civilization, upheld the new development concept of innovation, coordination, green, openness and sharing, and solidly fulfilled the requirements of the State-owned Assets Supervision and Administration Commission (SASAC) for central state-owned enterprises to actively participate in the "carbon peaking and carbon neutrality" action. The Company incorporated the measures for identifying climate-related risks and opportunities into its "14th Five-Year" development plan, continuously strengthened the responsibility system that "those in charge of business, production and business must also be responsible for ecological and environmental protection", revised old provisions and added new ones in the ecological environment management system, and performed proper management of climate risks to serve the Company's high-quality development.

The Company identified climate risks and opportunities from three time dimensions: short term (1-3 years), medium term (3-10 years) and long term (more than 10 years), formed a list of climate risks and opportunities, and disclosed it in the 2024 Special Report of Taskforce on Climate-related Financial Disclosure (TCFD) of CTGR.

Type	Description of risks/ opportunities	Impact cycle	Identification of specific risks and opportunities	Impact analysis	Coping strategies for specific risks and opportunities
Physical risks	Short-term extreme climate risks may have an impact on the power generation equipment.	Short-term	Extreme weather conditions pose a risk of equipment damage or operational interruption, affecting the stability and reliability of power generation.	It is necessary to strengthen the early warning of extreme climate risks and the construction of emergency management system, and enhance the safety protection and emergency response capabilities of facilities.	Enhance the disaster resistance capability of equipment, strengthen emergency plans and risk monitoring systems, and focus on evaluating the reliability of energy storage technologies that are susceptible to climate risks.
	The long-term risk of sea level rise may have an impact on the offshore wind power generation equipment.	Long-term	The long-term layout of facilities may be affected by changes in the operation and maintenance environment, increasing potential costs.	It is necessary to strengthen long-term risk monitoring and technology R&D, and enhance equipment resilience.	Strengthen long-term risk monitoring and technology R&D, optimize the layout design of facilities, and improve equipment's long-term resilience.
Transition risks	The technical capacity of equipment suppliers may not be sufficient to cope with extreme climate events in the future, which may affect the selection of front-end suppliers.	Long-term	Frequent extreme weather conditions place higher demands on equipment reliability, which may lead to production interruptions.	It is necessary to improve the technical standards and management measures for equipment disaster resistance, and enhance equipment reliability.	Develop and improve the green supply chain management strategy, and strengthen the risk assessment of suppliers and inventory management.
Transition opportunities	The policy support promotes the expansion of the market development potential for renewable energy projects.	Short-term Medium-term Long-term	It will expand market share and increase the success rate of project acquisition.	The stability of project revenue and cash flow will be improved.	Make advanced planning for the renewable energy market development strategy, strengthen regional policy research and market trend analysis, and strive to achieve the precise layout of the project.

List of Climate Risks and Opportunities in the 2024 Special Report of Taskforce on Climate-related Financial Disclosure (TCFD) of CTGR (excerpt)

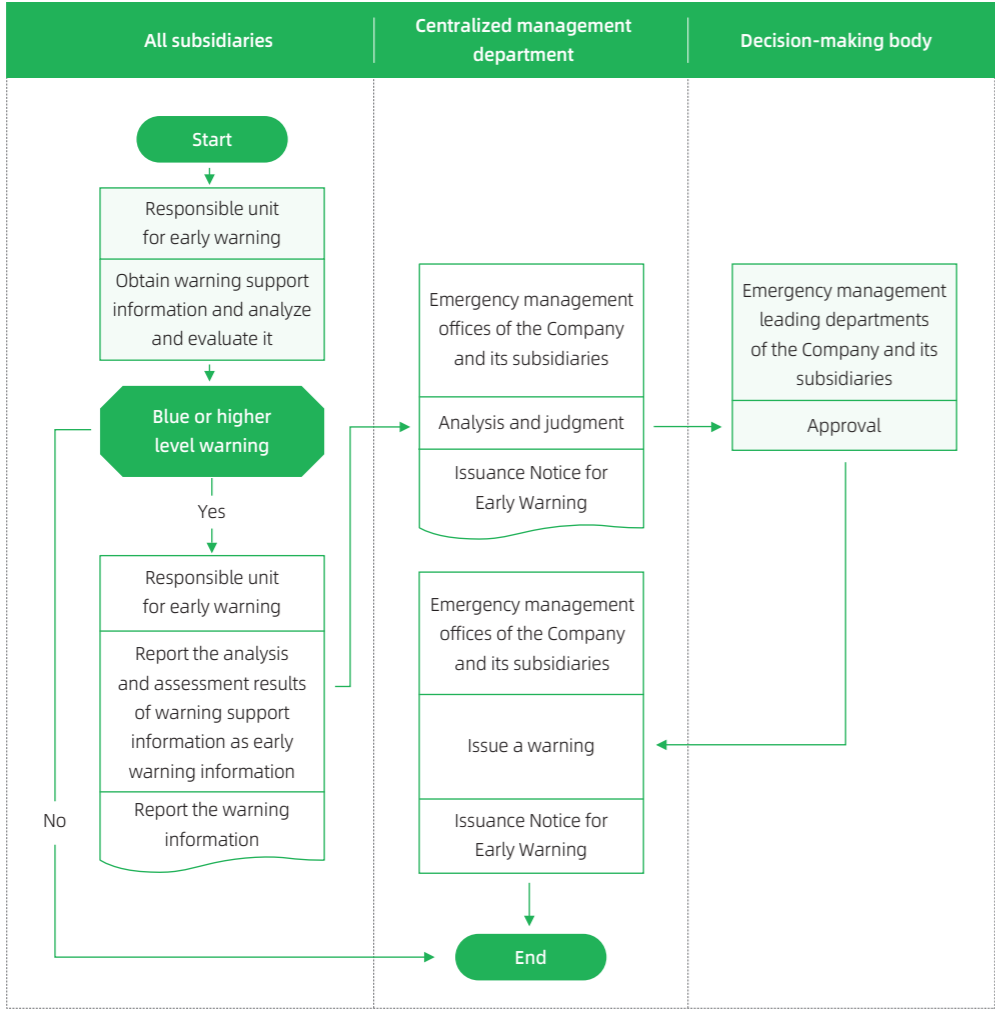
► Impacts, risks, and opportunities management

The Company established the *Management System for Coping with the Risks of Climate Change of China Three Gorges Renewables (Group) Co., Ltd.* in accordance with requirements of TCFD and IFRS S2, and built a complete climate risk management system. We collected, integrated and analyzed climate information through the independently developed ecological environment management system of CTGR, carried out climate scenario analysis and stress tests based on the characteristics of the Company's main assets, conducted comprehensive identification and quantitative assessment of climate risks, and established a coping mechanism.



Based on global mainstream climate models and policy trends, the Company selected three climate scenarios for transition risks, namely, global temperature rise by 2°C, delayed transition and current policies. The target scenario of global temperature rise by 2°C represents a strict emission reduction path, which may lead to faster energy structure adjustment and carbon policy changes; The scenario of delayed transition reflects the lag in market and policy response, which may lead to a transition risk of short-term high carbon emissions but later policy tightening; The scenario of current policies assumes that the existing policy framework remains unchanged, providing a benchmark assessment of the current market environment. Based on the geographic coordinates of assets, we evaluated the physical risk exposure levels of assets in case of nine climate disasters, including sea level rise, water scarcity, ecological environment damage and typhoons under high emission scenarios (RCP8.5). By analyzing the impact of the above-mentioned various climate risks on the Company's operation and finance, we classified them into short-term, medium-term and long-term risks, and incorporated climate-related impacts, risks and opportunities into the consideration of project investment decisions.

Flowchart for reporting and decision-making on climate risk warning information



The Company sorted out and analyzed the ESG module data of the ecological environment management system, and identified climate change risks and opportunities based on climate risk data, tools, and models and by means of scenario analysis and stress tests.

- We paid attention to the direct impact of climate conditions on renewable energy power generation, and fully considered local climate conditions such as lighting, precipitation and wind speed in terms of site selection, equipment model selection, and power generation plan formulation to ensure power generation efficiency and economic benefits.

- We paid attention to the damage to power generation facilities caused by extreme weather events (such as typhoon, rainstorm, drought, etc.) brought about by climate change, as well as its impact on equipment supply chain and transportation, and timely adjusted the business model and operation strategy as required.

The assessment results of the climate risk management system included four dimensions, namely "expected time of risk occurrence (short-term or long-term)", "likelihood of risk occurrence", "impact of risk on company profitability", and "impact of risk on company strategy". Based on the assessment results, the Company constructed an impact degree evaluation gradient of "low - medium low - medium - medium high - high" for physical risks and an impact degree evaluation gradient of "low - medium - high" for transition risks. Finally, the Company developed targeted coping strategies for prevention and control of risks and strategic planning of opportunities.

The Company focused on the opportunities brought by climate change, expanded strategic emerging industries and other emerging fields, and reduced operating costs and enhanced competitiveness through measures such as improving energy efficiency and reducing carbon emissions.

Case

As the main flood season of 2024 approached, the Company organized a special meeting on flood and typhoon prevention, issued the *Notice on Further Doing a Good Job in Flood and Typhoon Prevention*, compiled a list of requirements for flood and typhoon prevention, and guided its subsidiaries to make every effort in flood and typhoon prevention and ensure safety during the flood season. During the flood and typhoon prevention period in 2024, we initiated a total of three emergency responses to natural disasters at level III, and didn't initiate any emergency response at level II or above. All subsidiaries and projects (stations) have activated emergency responses based on the actual situation.

Emergency response actions during typhoons "Gaemi" and "Yagi"

Duration of typhoon influence	Emergency response actions
Early stage of typhoon formation	Pay attention to the dynamic information of typhoons and issue warning information in time.
72 hours before being affected	Activate the daily information reporting mechanism and organize all subsidiaries to implement measures against typhoons.
48 hours before being affected	Organize a special meeting on protection against typhoon and activate the hourly information reporting mechanism.
Within 24 hours of being affected	Activate the "daily + emergency" 24-hour duty mechanism, keep an eye on the typhoon's dynamics at all times, and prepare for emergency response at any time.
After typhoon	Timely organize and carry out post-typhoon hazard investigation and resumption of work and production.

► Indicators and goals

	Unit	2024	2023	2022
Generation capacity	100 GWh	719.52	551.79	483.50
Reduced carbon dioxide emissions	10,000 metric tons	5,727.13	4,270.6	3,785
Equivalent to saving standard coal	10,000 metric tons	2,169.37	1,663.6	1,475
Energy consumption every CNY 10,000 output value	Tonnage of standard coal/ CNY 10,000	0.0166	0.0138	0.0721
Total carbon dioxide emissions	tCO ₂ e	263,264 (Based on geographical locations) 210,367 (Based on markets)	168,599	/
-Scope 1	tCO ₂ e	33,575	14,415	/
-Scope 2 (Based on geographical locations)	tCO ₂ e	229,690	154,184	/
-Scope 2 (Based on markets)		176,792	/	/
-Scope 3	tCO ₂ e	80,598	/	/
Carbon intensity of power generation	Tonnage of carbon dioxide/ MWh	0.0037 (Based on geographical locations) 0.0029 (Based on markets)	0.0031	/
Carbon intensity of revenue	Tonnage of carbon dioxide/ CNY 10,000 revenue	0.0886 (Based on geographical locations) 0.0708 (Based on markets)	0.0637	/

1. Explanation of carbon emission statistics:

- (1) The statistical caliber is based on all the branches of this company and all subsidiaries with operational control rights as of the end of the reporting period, covering all power stations (including photovoltaic, wind power, hydropower, new energy storage and other businesses).
- (2) The calculation of direct greenhouse gas emissions (Scope 1) is based on the *GHG Protocol* issued by the World Resources Institute (WRI) and the World Business Council for Sustainable Development (WBCSD), the *2006 IPCC Guidelines for National Greenhouse Gas Inventories* issued by the Intergovernmental Panel on Climate Change (IPCC), and the *Accounting Methods and Reporting Guidelines for Greenhouse Gas Emissions of Power Generation Enterprises in China (Trial)*. The main sources of greenhouse gas emissions in Scope 1 are primary energy sources such as diesel, gasoline, natural gas and liquefied petroleum gas.
- (3) The main source of indirect greenhouse gas emissions (Scope 2) is purchased electricity, and its calculation refers to the average emission factor of the national power grid in 2022 provided by the Ministry of Ecology and Environment in the *Notice on the Management of Greenhouse Gas Emission Reports for Power Generation Enterprises from 2023 to 2025*. CTGR calculated its carbon emissions in Scope 1, 2, and 3 according to the guidelines of the GHG Protocol. The greenhouse gas emissions in Scope 2 were calculated using both location-based and market-based methods. The location-based calculation method reflected the average emission factor of the power grid in the region where the enterprise is located, while the market-based calculation method incorporated the green electricity and green certificates purchased by the Company.
- (4) The disclosure categories of indirect greenhouse gas emissions (Scope 3) include business travel, waste and office paper, and its calculation is based on the *GHG Protocol* and the *GHG Protocol: Corporate Value Chain (Scope 3) Accounting and Reporting Standards*. The carbon emission factors mainly refer to national authoritative documents such as the *China Greenhouse Gas Emission Coefficient Library for Product Life Cycle (2022)* issued by the Ministry of Ecology and Environment.

2. Explanation on statistics of energy consumption per CNY 10,000 of output value:

According to the *Notice on Further Excluding New Renewable Energy Consumption from Total Energy Consumption* issued by the National Development and Reform Commission in 2022, we further calculated the energy consumption per CNY 10,000 of output value and deducted the self-generated and self-used renewable energy electricity from it. In 2024, the energy consumption per CNY 10,000 of output value increased compared to the previous year, mainly due to the significant decrease in transaction electricity prices in some provinces, which affected the overall operating revenue.

The Company has set targets for reducing carbon dioxide emissions, promoted carbon emission reduction of purchased electricity, and strived to reduce the carbon emissions of purchased electricity in Scope 2 to near zero levels by 2026, steadily promoting low-carbon transition.

Firmly implement the leading strategy by offshore wind power

The Company continued to give full play to its advantages in large-scale and centralized development of offshore wind power, consolidating its leading position in China. The Company has put into operation offshore wind power projects in coastal provinces such as Guangdong, Jiangsu, Fujian and Liaoning, created the Pillars of a Great Power, and accelerated the layout of the domestic offshore wind power market.

Optimize and upgrade the layout of onshore renewable energy industry

The Company focused on key regions to expand renewable energy resources, consolidated and expanded the scale of resource reserves of base projects. The Company implemented a collaborative model of independent development and mergers and acquisitions, rapidly increased market share through equity cooperation and mergers and reorganizations, and developed the advantage of large-scale industries.

Actively explore renewable energy technologies, models and business forms

Based on the construction of external transmission channels and power grids, we explored new models of the wind-solar-storage integrated renewable energy transmission, and the dispersed and nearby consumption through source-grid-load-storage integration. We increased R&D investment in the technology route of efficient electrolytic hydrogen production from green electricity, explored the effective use of abandoned wind and solar power generation for electrolytic hydrogen production, continuously explored new business for renewable energy development, further improved the utilization level of renewable energy, and seized market opportunities.

Refine production and operation management, and promote resource and energy conservation

We built a smart low-carbon management system based on the production and operation practices. We built a centralized control center mainly based on the centralized monitoring system for renewable energy to transmit and collect real-time data on power prediction, power quality, and other aspects of wind turbines and photovoltaic modules in renewable energy stations, and reduced the number of on-duty personnel to minimize carbon emissions during production and operation processes. We simultaneously improved the low-carbon attributes and electrification level of buildings, and realized the self-collection and self-consumption of electricity between substations and buildings. We promoted zero-carbon buildings to serve as flexible loads and integrated the intelligent building-integrated photovoltaic systems into building energy systems.



Pollutant Discharge and Waste Disposal

The operation process of CTGR mainly involves the pollution caused by domestic wastewater, a small amount of fire-fighting wastewater, noise and hazardous waste. In strict accordance with laws, regulations and standards such as the *Environmental Impact Assessment Law of the People's Republic of China*, the *Regulations on Environmental Protection Management of Construction Projects*, and the *Interim Measures for the Filing Management of Emergency Plans for Sudden Environmental Incidents of Enterprises and Public Institutions*, the Company conducted environmental impact assessments on projects to be built, and filed emergency plans for sudden environmental risks such as pollutant leaks. The Company continued to carry out inspections on pollutant disposal and fulfilled its ecological responsibilities.

In 2024, the proportion of the Company's clean energy installed capacity reached **100%**, not involving the emission of waste gas pollutants such as nitrogen oxides and sulfur oxides, as well as the discharge of a large amount of industrial wastewater. It didn't involve environmental performance rating, either. The Company strictly regulated emission treatment. The dust emissions during the construction period met the standard for unorganized emission of dust in the *Integrated Emission Standard of Air Pollutants* (GB16297-1996). The emission of cooking fumes from the canteen during the operation period lived up to the *Emission Standard of Cooking Fume from the Catering Industry* (GB18483-2001).



► Waste water

The Company conducted in-depth analysis of the actual situation of different types of projects, and actively carried out the treatment of domestic sewage and a small amount of industrial wastewater according to the project stage. All wastewater has been treated by integrated sewage treatment equipment and basically not discharged outside. In 2024, the total amount of wastewater generated by the Company was **141,700** tons. The emissions of ammonia nitrogen and chemical oxygen demand in the Company's wastewater have met the standards after being treated as required.

Project type		Construction stage	Operation and maintenance stage
Domestic wastewater	Offshore wind farm	During the construction period, construction workers were not allowed to spill domestic sewage at will. It should be discharged into the sewage treatment and storage device on board and transported to the shore for treatment. The sewage treatment device has been well constructed.	The operation and maintenance of the project were in good condition, without sewage discharge outside. The operation and maintenance of the sewage treatment device were in good condition.
	Onshore wind farm	During the construction period, construction workers were not allowed to spill domestic sewage at will. It should be discharged into temporary outdoor dry toilets. The toilets were regularly cleaned and sewage was transported out as fertilizers. Strict anti-seepage measures have been taken at the bottom of the toilets, and covering measures have been taken during the rainy season. The septic tanks have been well constructed.	Domestic sewage was discharged into the anti-seepage septic tanks and regularly transported by sewage trucks for unified treatment, without being discharged outside. The operation and maintenance of septic tanks were in good condition.
	PV power station	The power station has been built with septic tanks. The septic tanks have been well constructed.	Sewage trucks regularly transported the sewage, without discharge outside. The operation and maintenance of septic tanks were in good condition.
	Energy storage power station	The power station has been built with a domestic sewage treatment system.	Domestic sewage was discharged into the sewage treatment tank, and after purification treatment, it can be used for watering green belts without being discharged outside.
	Solar thermal power plant	The power station has been built with septic tanks. The septic tanks have been well constructed.	Not involved.
	Pumped storage	The power station has set up sewage treatment facilities. All sewage was reused after being treated to meet the reuse standards, and must not be discharged outside.	Not involved.
Industrial waste water	Offshore wind farm	The construction wastewater was stored on the construction ship, transported to the shore for sedimentation and treatment, and could be recycled. The facility has been well constructed.	The operation and maintenance of the project were in good condition, and it can basically achieve zero emissions.
	Onshore wind farm	The construction wastewater can be recycled after being treated in the sedimentation tank, and the supernatant can be reused for construction or used for dust reduction and watering. The facility have been well constructed.	The operation and maintenance of the project were in good condition, and it can basically achieve zero emissions.
	PV power station	The construction wastewater can be recycled after being treated in the sedimentation tank, and the supernatant can be reused for construction or used for dust reduction and watering. The facility have been well constructed.	During the operation and maintenance process, the production wastewater has been strictly treated. The operation and maintenance of the project were in good condition, and it can basically achieve zero emissions.
	Energy storage power station	The power station has built a fire-fighting wastewater tank in the energy storage equipment area according to regulations.	Fire-fighting wastewater entered the fire-fighting wastewater tank through the dedicated pipeline, and was then recycled and disposed of by professional institutions. The operation and maintenance of the project were in good condition, and it can basically achieve zero emissions.
	Solar thermal power plant	The construction wastewater can be recycled after being treated in the sedimentation tank, and the supernatant can be reused for construction or used for dust reduction and watering. The facility have been well constructed.	Not involved.
	Pumped storage	The power station has set up sewage treatment facilities. The sewage and waste water was recycled after being treated to meet the reuse standards, and must not be discharged outside.	Not involved.

► Noise

In accordance with the *Law of the People's Republic of China on Prevention and Control of Pollution from Environmental Noise*, the Company conducted in-depth analysis of the actual situation of different types of projects, and strictly implemented the noise management requirements during the construction and operation periods in the environmental impact assessment documents of all projects according to the project stage. During the construction period, we reasonably arranged the construction schedule and adopted low-noise construction machinery and techniques to ensure that the construction noise emissions met the *Emission Standard of Environmental Noise for Boundary of Construction Site*. During the operation period, we regularly conducted environmental monitoring to ensure that noise emissions meet relevant national standards such as the *Environmental Quality Standards for Noise and the Emission Standard for Industrial Enterprises Noise at Boundary*. In 2024, the noise compliance rate at the boundary of the Company's projects reached **100%**.

► Solid wastes

In 2024, the Company actively carried out special inspections on hazardous waste, fully grasped the situation of hazardous waste management in its affiliated project sites, achieved standardized management of waste identification, collection, storage, transfer and disposal, and continued to promote the recycling of waste.



Project type		Construction stage	Operation and maintenance stage
Solid wastes	Offshore wind farm	The remaining soil and rock after backfilling was brought back to the shore for further transportation. The removed packaging materials were recycled by suppliers.	All waste slag was utilized, with a high utilization rate.
	Onshore wind farm	The remaining soil and rock after backfilling was promptly transported to reduce the intensity of wind erosion. The removed packaging materials were recycled by suppliers.	The waste slag was piled up at the designated spoil area. A combination of engineering and vegetation measures were taken to protect the construction waste slag. The utilization rate of waste slag was relatively high.
	PV power station	Unified management and recycling of damaged battery panels or other materials have been carried out to avoid the impact of battery waste on the local area.	The storage area for battery panels was set up for unified recycling. Damaged battery panels were recycled and disposed of by qualified institutions.
	Energy storage power station	The power station was built with a temporary storage room for hazardous waste. Damaged energy storage batteries were collected by the battery manufacturer in accordance with relevant contracts, and the remaining waste were recycled and disposed of by qualified institutions.	Domestic garbage was centrally piled up and regularly removed by the local sanitation department. Construction waste was transported to designated locations for dumping.
	Solar thermal power plant	Construction waste and domestic garbage were collected in time and treated in a centralized way.	All the construction waste was transported by the construction unit to the local construction waste landfill for disposal, and the measure was operating well.
	Pumped storage	The domestic garbage and production waste were piled up after classification and treated in a centralized way. The engineering waste slag was transported to designated locations for stockpiling. Hazardous waste was disposed of by institutions with a hazardous waste management licenses.	Not involved.



Biodiversity & Ecosystem Conservation

In recent years, CTGR has actively practiced the concept that lucid waters and lush mountains are invaluable assets, and been committed to creating a new type of natural economy with harmonious development of energy and nature. The Company strictly abided by laws and regulations such as the *Forest Law of the People's Republic of China*, the *Law of the People's Republic of China on the Protection of Wildlife* and the *Regulations on Nature Reserves of the People's Republic of China*, supported the *United Nations Convention on Biological Diversity*, and avoided areas prohibited from development within the ecological red line. The Company followed the principle that we should "develop while protecting and protect while developing", took responsible measures to protect biodiversity, and protected ecosystems, wildlife habitats and endangered species. Throughout the year of 2024, none of the Company's projects that have been put into operation had been suspended from production and operation activities due to any impact on the ecological red line.

In 2024, the Company invested a special fund of CNY **519.5584** million in the field of ecological restoration, cumulatively restoring **40,283.86** hectares of degraded ecosystems, and simultaneously carried out **26** ecological protection publicity activities, with an expenditure of CNY **211,600**.

Species Protection

We implemented special measures, including investing CNY **1.6639** million in strengthening the maintenance of bird habitats, investing CNY **350,100** in implementing species protection measures, and donating CNY **50,000** to support species conservation.

Marine ecological protection

The Shandong Changyi Marine Ranch Project of CTGR invested CNY **15.75** million in operation and maintenance of marine ranch and implemented the continuous ecological monitoring system in a coordinated manner. At the same time, the Company launched a large-scale reproduction and releasing activity, releasing a total of **736** million fish fries at a cost of CNY **14.7023** million.

Publicity and science popularization

Throughout the year of 2024, the Company organized **255** science popularization and publicity activities on the theme of biodiversity, forming a biodiversity protection pattern of "engineering governance + species conservation + public engagement".



Biodiversity protection measures

Planning	We paid attention to ecologically sensitive areas when selecting the project site, and developed biodiversity protection strategies through the Environmental Impact Assessment (EIA).
Design	We optimized the layout, integrated eco-friendly design, and established the eco-paths, green belts and animal-friendly facilities.
Construction	We adopted low-disturbance construction methods to reduce damage to the local ecosystem, and developed ecological restoration measures.
Operation & maintenance	We established a long-term biodiversity monitoring system, regularly assessed the impacts and adjusted management strategies to achieve sustainable development.
Reconstruction	We strictly implemented ecological restoration measures after the expiration of service period, promptly carried out land remediation and vegetation restoration, removed construction machinery and dismantled building facilities for site leveling.

Underwater animal protection

Construction period		Operation phase
 Offshore wind power	We optimized the construction plan and shortened the underwater operation time as much as possible on the premise of ensuring the construction quality.	We included the compensation funds for ecological losses caused by the project in the project investment budget and strictly used them for ecological restoration. The main method for ecological restoration was reproduction and releasing of aquatic organisms.
	We strictly limited the construction area and offshore operation scope, and avoided arbitrarily expanding the construction scope.	We strengthened monitoring of fishery resources and ecological environment. We evaluated the changes in fishery resources and ecological environment in the surrounding sea areas during the construction and operation periods of the project.
	We avoided construction under adverse weather conditions, ensured construction safety, and prevented severe diffusion of suspended solids.	We strengthened the ecological investigation of rare marine organisms.
 Photovoltaic power on the water surface	We enhanced communication with local meteorological forecasting departments, and took measures in advance to ensure construction safety under adverse weather conditions.	We adopted a fully sealed structure and the box-type transformer with good sealing performance, set the high-oil-level alarm, low-oil-level alarm and high-temperature alarm, and installed over-temperature tripping device and overcurrent protection device, equipped with an accident oil pool. We ensured that the water environment was not polluted and aquatic organisms were not affected.
	We strictly prohibited the arbitrary discharge of construction wastewater, and set up intercepting ditches and oil separation sedimentation tanks in the construction site. The wastewater was used for vehicle washing, watering and dust suppression after oil separation and sedimentation, without being discharged outside. The wastewater during the construction period had no impact on the aquatic ecosystem.	
	We carried out construction in time sequence. High-noise equipment such as pile driving barges used during the construction period were turned on in time sequence to reduce the impact on aquatic organisms.	

► Plant protection

The Company has taken systematic measures in plant protection to minimize the impact on the ecological environment throughout the project lifecycle and promote long-term ecological restoration. In 2024, the Company carried out **72** publicity activities on the protection of terrestrial species, with an investment of CNY **133,900**.

■ Plant protection measures for projects

Decision-making phase	In the early stage of the project, the project development department should pay attention to avoiding ecologically sensitive areas when determining the project site.
	We prepared the environmental impact assessment report to analyze the current status of environmental quality and environmental protection objectives.
Construction phase	We strictly followed the principle of plant protection and prioritized the preservation of the local matured soil.
	We strictly controlled the land occupation area to avoid unnecessary vegetation damage.
	We carried out biodiversity conservation and fire safety education for construction workers to prevent forest fires and ensure that construction activities comply with environmental protection requirements.
	We avoided construction under adverse weather conditions, ensured construction safety, and prevented severe diffusion of suspended solids.
Operation phase	We improved vegetation protection measures that had not been fully implemented during the construction period.
	When carrying out ecological restoration in areas affected by shadows of photovoltaic modules and wind turbine blades, we selected plants that prefer shade, resist cold and drought, and can quickly adapt to the local climate and sunlight conditions.
	After the completion of the main construction, we restored the occupied vegetation in a timely manner, and carried out effective nurturing. For the occupied land that was originally cultivated land, we restored it to its original farming conditions and handed over to local farmers for cultivation.
	We have been committed to the comprehensive restoration of the ecological environment. For the greening of photovoltaic module areas, we gave priority to shade-loving plants and tried to retain the original low-growing vegetation to balance the needs of ecological protection and photovoltaic power generation.
	We adopted scientific restoration measures, such as soil covering and greening, native vegetation planting and enclosed management, so as to ensure the sustainable restoration of the ecosystem, avoid the impact of alien invasive species, and ultimately achieve a virtuous cycle of the ecological environment.



► Wildlife protection

The Company took strict management measures in wildlife protection to minimize the impact of project construction and operation on wildlife habitats.

■ Wildlife protection measures for projects

Decision-making phase	In the early stage of the project, the project development department should pay attention to avoiding ecologically sensitive areas when determining the project site.
	We prepared the environmental impact assessment report to analyze the current status of environmental quality and environmental protection objectives.
Construction phase	We strengthened the publicity on ecological environment protection, enhanced the environmental awareness of construction workers and local residents, and provided training on relevant laws and regulations to construction workers.
	We strictly implemented land occupation planning, avoided construction beyond the scope, and optimized construction techniques and sequence to reduce construction noise. We strictly prohibited the introduction of alien species to reduce the disturbance to animals and plants.
	We tried to avoid the breeding season of mammals, kept away from the well-growing forest vegetation, and avoided damaging the ecological environment outside the construction area.
Operation phase	The Company implemented strict management on construction workers and prohibited any form of illegal hunting and killing of wild animals.
All time periods	We continuously monitored the activities of wild animals in the environmental impact assessment report, reported any abnormalities to the forestry department in time, and handled injured or dead animals properly to ensure the long-term stability of the ecological environment.

Case

Bird protection

The Company has taken special measures to reduce the impact of wind power facilities on birds, established a long-term monitoring and evaluation mechanism for bird activities, improved the warning and prevention system for bird strike incidents, and ensured the safety of bird habitats. The Company reduced nighttime lighting, drew eagle eye markings on wind turbine blades and applied matte paint to reduce the risk of birds chasing after the blades because of the light. In case of injured birds, the Company sent them to local wildlife conservation agencies for professional rescue after initial treatment, further strengthening the fulfillment of ecological protection responsibilities.



[Note: For details on the Company's response to ecological protection, please refer to the "Environmental Management" section of this Report.]

Resource Utilization and Circular Economy

► Energy utilization

In the context of national energy transition, CTGR continued to strengthen the management of energy conservation, actively promoted energy conservation in the project decision-making, construction and equipment selection stages, and continuously improved energy utilization efficiency. The Company focused on renewable energy projects such as wind power and photovoltaic power, optimized equipment operation strategies, introduced monitoring systems, and implemented upgrades and renovations of old equipment. At the same time, the Company has increased investment in overall optimization of energy storage systems, intelligent operation and maintenance, and reduced energy consumption per unit of power generation through advanced technology.

The energy consumption of the Company mainly included electricity consumption during the operation process, as well as energy use in office, production and transportation. The Company effectively reduced energy consumption by implementing energy-saving measures at various stages of project operation, and organized regional companies to purchase green certificates, achieving 100% green electricity consumption in office spaces. The Company gave full play to the leading role of central state-owned enterprises in green electricity consumption, and promoted the green and low-carbon transition of the energy system.



■ Energy-saving process of the station projects

Decision-making phase	We strengthened the review of energy conservation, conducted detailed analysis of energy conservation and consumption reduction, and optimized construction and equipment operation plans. In the process of site selection and route selection, we selected areas with abundant wind energy resources and chose the optimal design inclination angle for solar panels to improve power generation efficiency. During the design process, we continuously optimized the foundation form, reduced the volume of earthwork excavation, and reasonably selected the path of the collector line, the specifications of the wires and cables, the capacity and number of box-type inverters to reduce energy loss.
Construction phase	We optimized construction layout, reduced engineering quantities, minimized energy and resource consumption, and selected new, efficient and low-energy-consuming equipment for procurement and installation.
Operation phase	We selected design schemes or equipment with high energy efficiency levels or significant energy-saving effects to reduce the carbon emissions of renewable energy stations from the root. We regularly analyzed energy conservation indicators, strengthened supervision on energy conservation, and conducted data analysis and summary on a quarterly basis to achieve the annual energy conservation and emission reduction goals.
Decommissioning stage	We developed the mechanism for recycling of wind turbine blades, actively participated in the research of group standards, and promoted the recycling of blades and other components.

2024 The Company totally consumed	Gasoline	Natural gas	Liquefied petroleum gas
	1,122.37 tons	10,900 standard cubic meters	9.30 tons
	Diesel	Liquefied natural gas	
	249.49 tons	0.22 tons	

In 2024, the Company's total electricity consumption was **2.382** TWh, with renewable energy electricity consumption (green electricity consumption) accounting for **97.2%** of the total electricity consumption. Among them, the self-generated and self-consumed electricity was **1.996** TWh (all self-generated and self-consumed electricity was renewable energy electricity), and the purchased electricity was **386** GWh. The Company purchased **318,809** green certificates. In 2024, the total comprehensive energy consumption of the Company was **49,536.28** tons of standard coal, and its comprehensive energy consumption per CNY 10,000 of output value was **0.0166** tons of standard coal per CNY 10,000 of output value.

Centering on the goal of energy conservation, the Company has established an energy conservation management system that covers all scenarios of office, life, production and operation. The main measures included

 Office and life	■ We actively promoted digital office and implemented double-sided printing and quantity control for paper documents.
	■ We implemented lighting control by zone as needed in the office area, used energy-saving and environmentally friendly lighting equipment, illuminated public areas at different times, and required that "lights should be turned off when people leave" in the office area.
	■ We performed temperature control for cooling and heating in summer and winter seasons.
	■ We used water-saving sensor faucets.
	■ We used eco-friendly garbage bags, minimized the use of plastic garbage bags, and tried not to replace garbage bags when dumping.
	■ We performed energy-saving management of the fuel used by the fleet. When the route for the vehicle user to handle affairs was relatively short and the location was relatively close, we tried to ensure that multiple people travel in one vehicle.
 Production and business	■ We established a full-process energy-saving standard system, and assigned the person in charge of energy conservation in the department to review and supervise the links in the project that require the implementation of mandatory energy-saving standards.
	■ We urged relevant parties to mark energy efficiency labels on energy-consuming products included in the national energy efficiency labeling management product catalog.
	■ The person in charge of energy conservation actively assisted the department in certification of energy-saving products for the Company's energy products.
	■ All departments and subsidiaries were responsible for the measurement, statistics, analysis and supervision of energy conservation and emission reduction in accordance with the requirements of State-owned Assets Supervision and Administration Commission (SASAC) and the Company.
	■ The person in charge of energy conservation actively organized the Company to participate in exchanges and symposiums held by industry associations related to energy conservation.
	■ All departments and subsidiaries urged the Contractor to strengthen the management of resource and energy conservation during the project implementation process by signing agreements and contracts.



► Water resources utilization

The Company attached great importance to the impact of water resource consumption on the environment, implemented the policy of giving equal weight to energy development and conservation, made innovations and promoted the use of water-saving technologies, and widely adopted water-saving measures to promote the recycling of water resources and effectively reduce water resource consumption. In terms of specific actions, the Company adopted water-saving sensor faucets and strengthened maintenance and inspection of water equipment and facilities to ensure no water leakage. At the same time, the Company conducted water resources assessment for all investment and construction projects, providing important technical basis for the rational development and utilization of water resources by construction projects.

In 2024, the Company's fresh water consumption was 290,044.84 tons, and the circulating water consumption was 21,379.2 tons, accounting for 6.86% of the total. The water resource consumption intensity throughout the year was about 0.097 tons per CNY 10,000. The water resource indicators for the Company in 2024 can be found in the appendix of this Report titled *Key Performance Indicator Data List*.

► Conservation and utilization of resource elements

The Company promoted the centralized and distributed renewable energy development according to local conditions, and optimized the reserve of high-quality resources. We vigorously developed onshore wind power and photovoltaic power generation, made an active layout for offshore wind power, accelerated the construction of large-scale wind and solar bases in deserts, Gobi and other regions, and promoted the source-grid-load-storage integration and multi-energy complementarity. We simultaneously expanded businesses such as pumped storage, new energy storage, hydrogen energy and solar thermal energy to enhance the consumption and cascade utilization of renewable energy resources.

Conservation and utilization of land resources

We released the typical design schemes for substations to promote land conservation of projects, and promoted the application of new land-saving technologies such as modular prefabricated cabin-type substations. We utilized idle water surfaces of sinkholes in coal mining areas to build floating photovoltaic power stations, strengthening the comprehensive utilization of land resources. We integrated photovoltaic power generation with agriculture, fishery and desertification control to improve the comprehensive benefits of land resources and promote the economical and intensive utilization of land resources.

Efficient utilization of wind resources

We strengthened micro-site selection, optimized the unit model selection and position layout. We adopted advanced and applicable technologies to reduce power loss in transmission lines and achieve efficient utilization of wind energy resources in low-wind-speed areas. Through technological research and innovation, we improved resource conversion efficiency, reduced the cost per kWh, increased the operational efficiency of the energy system, and improved management and technical standards to achieve efficient utilization of wind resources.

Case

For the renewable energy base project in the central and northern part of Ordos in the Kubuqi Desert, we determined the suitable models, capacity divisions, mixed arrangement schemes and tower height schemes by site and area based on the actual wind resource conditions of each site, so as to improve the efficiency of wind resource utilization and enhance the long-term availability of resources on the basis of ensuring long-term safe and stable operation of the units.



Efficient utilization of solar energy resources

PV projects

We determined the optimal tilt angle, the north-south spacing and the optimal DC-AC ratio through system iterative optimization. For complex mountainous projects, we carried out refined design to address the impacts of mountain sunlight, terrain, etc. We determined the bracket form according to local conditions, and selected PV modules with high conversion efficiency.

The Company also strengthened O&M personnel training, elevated O&M standards for PV and CSP plants, and refined management and technical standards to maximize solar resource efficiency.

CSP projects

Based on the actual situation, we selected the technology route with high photoelectric conversion efficiency, optimized the layout of the solar field according to the project's geographical location and resource situation, actively carried out research and strove to improve the control accuracy of the CSP system.

► Circular economy

Recycling and reuse of waste components

The Company actively participated in the research of group standards. In view of the current lack of mature and referable standards for reuse and remanufacturing of wind turbine blades after the decommissioning of wind farms in the renewable energy industry, the Company has participated in the preparation of group standard of the China National Resources Recycling Association, *Technical Specifications for Reuse and Remanufacturing of Wind Turbine Blades*, making planning for the recycling and resource utilization of wind turbine blades.

In 2024, the Company initiated a thorough investigation of the waste generated by projects, sorted out the generation of decommissioned equipment waste such as wind turbine blades, photovoltaic modules and energy storage battery cells from 2030 to 2045 by region, and established a dual-track mechanism of "resource recycling + green disposal".



Social

We focus on humanistic care and actively fulfill our social responsibilities. We are committed to producing socially responsible products, building a responsible supply chain, and contributing to society with the power of sustainable development.

The SDGs addressed in this Chapter

 <p>1 NO POVERTY</p>	 <p>2 ZERO HUNGER</p>	 <p>3 GOOD HEALTH AND WELL-BEING</p>	 <p>4 QUALITY EDUCATION</p>	 <p>5 GENDER EQUALITY</p>	 <p>8 DECENT WORK AND ECONOMIC GROWTH</p>	 <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>
 <p>10 REDUCED INEQUALITIES</p>	 <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>	 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>				

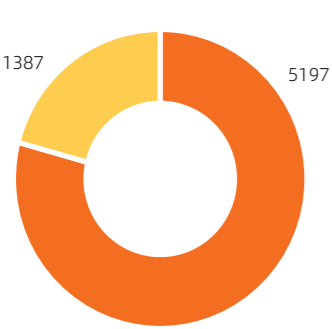
Employees

CTGR places a high priority on protecting employees' rights and interests and strictly complies with the *Labor Law of the People's Republic of China* and other relevant laws and regulations to ensure employees' lawful rights and interests are fully safeguarded. It actively fosters a fair, just, and harmonious work environment, pays close attention to employees' professional development, and provides comprehensive systems for compensation and benefits, career training, and safety protection to continuously improve employees' sense of gains and belonging.

► Protection of employees' rights and interests

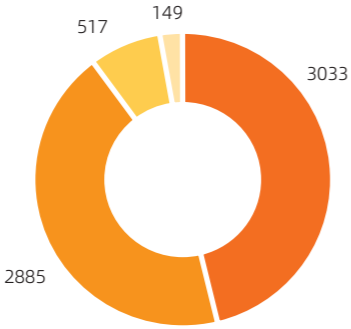
Employee structure

In 2024, the Company recruited a total of **591** new employees from external sources, including **505** recent university graduates, **50** through social recruitment, **31** through other channels, and **5** resettled veterans. The employee turnover rate was **1%**, with no layoffs or major mergers and acquisitions during the year. All employee transfers and transitions were handled in full compliance with applicable laws and regulations.



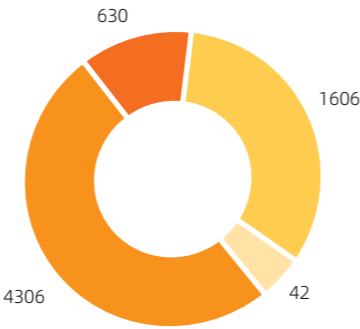
Male Female

Gender composition



30 years old and under
31 to 40 years old (inclusive)
41 to 50 years old (inclusive)
51 years old and above

Age composition



Junior college degree and below
Bachelor's degree
Master's degree
Doctor's degree

Educational background composition

Employee compensation and benefits

The Company strictly adheres to labor laws and regulations, and maintains a **100%** labor contract signing rate and **100%** social insurance coverage, providing employees with stable and reliable protection. A diverse range of benefits is offered, covering health insurance, paid leave, career development, and more, with the goal of improving employees' sense of happiness and belonging.

Following a people-oriented approach, the Company has established a comprehensive compensation and benefit guarantee system to ensure the protection of employees' lawful rights and interests. Both the Company and its subsidiaries have established sound compensation and benefit management systems that clearly specify the timely and full payment of wages to employees within the designated pay cycles.

The Company continuously improves its compensation structure and refines its performance-based incentive mechanism. Compensation policies are developed based on market-oriented, strategic, legally compliant, and internally equitable principles, offering employees stable and competitive salaries. Targeted incentive measures are implemented for key personnel and core business areas, with salary increases or decreases based on performance to widen differences in personal income rationally. In 2024, the differentiated compensation levels among employees were significantly improved.

Working hours and leave

To safeguard employees' legal rights and interests and provide a healthy and orderly work environment, the Company actively addresses employees' concerns related to leave, attendance, and off-duty rotation. In accordance with national and local regulations, it has revised and issued regulations such as the *Leave Management Measures*, the *Attendance Management Measures*, and the *Off-duty Rotation Measures for Employees on Cross-Location Assignments*. These measures have defined the working hours, compensatory leave, and paid vacation entitlements. By continuously strengthening labor discipline and improving employee leave management, the Company has greatly improved employees' sense of belonging and satisfaction.

Case

For power production personnel on duty, the Company adopted a comprehensive working hour calculation system. All other employees followed the standard working hour system, with working hours managed according to the requirement that employees work for no more than 8 hours per day and no more than 44 hours per week, which complies with relevant labor laws. Overtime work outside of regular hours was compensated through overtime pay or off-duty rotation, thus ensuring employees' rights to rest and time off.



Democratic management in the enterprise

The Company has established a democratic management and oversight system centered on the Employee Representatives Congress. With 15 grassroots labor unions in place, the Company has established multiple channels such as the Employee Representatives Congress, joint meetings of the Employee Representatives Congress, and (expanded) meetings of the Labour Union Committee, fully protecting employees' rights to information, participation, and supervision. It has always solicited employees' opinions and suggestions when developing rules and regulations and making major decisions that directly affect their interests.

To effectively protect employees' rights and interests, the Company signed the *Collective Contract*, *Special Collective Contract on Wage Negotiation*, *Special Collective Contract on Labor Safety and Health*, and *Special Collective Contract on the Protection of Female Employees' Rights and Interests* during the year. It reviewed and approved the *Implementation Plan of CTGR for Further Deepening the Reform of the Human Resources System and Stimulating Officials and Employees' Initiative (Trial)*. It also standardized the collection, processing, and satisfaction evaluation of proposals submitted through the Employee Representatives Congress.

In 2024, a total of 20 Labour Union activities were held with **100%** employee participation. **100%** was reached in the democratic evaluation satisfaction rate from union member representatives. The annual Employee Representatives Congress reviewed and approved 11 employee proposals, all of which were fully addressed, reaching a **100%** satisfaction rate among the proposers.

The Company has appointed employee directors and employee supervisors to serve as a bridge for communications between the ordinary employees and the management team, which provides effective channels for the management team to hear and respond to employees' voices.

Recruitment

The Company consistently upholds the "people-oriented" philosophy throughout the entire recruitment process and strictly adheres to the principles of fairness, impartiality, and transparency in recruitment. It prohibits all forms of employment discrimination and works to build a diverse, high-potential talent pipeline. Besides, it continues to align its efforts to consolidate and expand poverty alleviation achievements with rural revitalization by launching dedicated recruitment programs for graduates from previously impoverished families. It actively offers internship and training opportunities to students, fulfilling its social responsibilities as a central state-owned enterprise.

Question
feedback

Employees are encouraged to file complaints if they believe they have encountered violations of regulations or laws, inappropriate conduct, unfair treatment, gender discrimination, or any other behavior that may harm the interests of the Company, departments, or employees.

Upon receiving a complaint, the Company will conduct a comprehensive investigation to obtain evidence based on the principles of flexibility, confidentiality, and objectivity. If the complaint is verified, those responsible will be held accountable and subject to disciplinary action. For complaints submitted under the employee's real name, the final outcome will be promptly communicated to the complainant after a decision is made.

Resolution of
disputes

The Company has established the *Labor Contract Management Measures* and entered into labor contracts with employees in writing in accordance with the law. If either party has disputes towards the termination or dissolution of the labor contract during its execution, they may request mediation from the Labor Dispute Mediation Committee of the Company, which will then proceed with the mediation process.

If the Company unilaterally terminates a labor contract, it shall first inform the Labour Union of the reason. If the Labour Union raises any objections, the Company shall review the Labour Union's opinions and inform the union of the processing results in writing.

Creating flexible employment

In 2024, the Company had a total of 98 projects under construction, which provided flexible employment opportunities to migrant workers in local communities. It supervised relevant parties to sign labor contracts with migrant workers in accordance with the law and ensure that their rights to wage payment and social insurance were fully protected. At the turn of the year, it strengthened inspections related to the payment of wages to migrant workers, and monitored the designated use of special funds to ensure that migrant workers were paid in full and on time.

Occupational health and work safety

Occupational health

CTGR adheres to a people-centered approach and attaches importance to the occupational health and safety of every employee. The Company has established the *Management Measures for Occupational Hazards Prevention and Control*, obtained ISO 45001 Occupational Health and Safety Management System certification, and built a company-wide accountability system for occupational disease prevention and an occupational health management system. It has also conducted hazard identification and risk assessments for occupational disease factors, and strictly implemented activities such as occupational health risk notification and training, employee health protection, on-site supervision and inspection, and regular employee health examinations. It achieved **100%** coverage in annual occupational health checkups, with a recorded occupational disease incidence rate of **0**.

Occupational health management system

The Company has established the *Management Measures for Occupational Hazards Prevention and Control*, clearly assigning the Department of Quality, Security and Environmental Protection to be responsible for the supervision and management of the occupational disease hazard prevention. All subsidiaries are required to develop occupational health archives, occupational health monitoring records, and occupational disease hazard project files based on the Company's actual occupational health management practices, including relevant systems and operating procedures, lists of occupational disease hazard factors in the work location, job distributions and exposure records, documentation on the installation, use, and maintenance of occupational disease prevention facilities, records and reports of occupational disease hazard detection and evaluation at worksites, records on the provision, distribution, maintenance, and replacement of personal protective equipment (PPE), documentation related to "Three Simultaneousness" (simultaneous design, construction, and operation) of occupational disease prevention facilities for construction projects, and employee occupational health information forms.

Occupational health risks and opportunities

The Company actively identifies and addresses occupational health risks, transforming them into opportunities to promote its sustainable development. Comprehensive assessments are conducted on hazard factors such as noise, vibration, high temperatures, and electromagnetic radiation. For high-risk positions, the Company has formulated targeted protective measures to provide a safe and comfortable working environment. By strengthening occupational disease hazard monitoring and the investment in protective facilities, it has effectively reduced the risk of occupational disease. Furthermore, by integrating occupational health management with corporate social responsibility, it has advanced the common sustainable development for both the Company and its employees by improving the work environment and optimizing the workflow.

Occupational health management measures

The Company maintains a classified and tiered control ledger, clearly identifying the sources of hazards and conducting systematic identification, analysis, and evaluation of harmful factors. Corresponding control measures are developed to ensure science-based and safe risk management. It strictly adheres to the "Three Simultaneousness" principle, ensuring that occupational disease protection facilities are designed, constructed, and put into operation simultaneously with the main project. For new, reconstructed or expanded projects, it performs hazard pre-assessments, control effect evaluations, and final acceptance inspections to ensure their compliance with occupational health standards.

The Company provides employees with protective supplies that meet the national occupational health standards, and supervises and guides them to use such supplies correctly. It also prohibits the substitution of them with cash or other items, and conducts regular maintenance to ensure their effective use. It also fulfills its management responsibilities through ongoing monitoring of hazardous factors and classified, tiered law enforcement inspections to effectively prevent and control occupational disease hazards.

Occupational health training

The Company has organized a variety of publicity activities with rich content. Taking into account their actual conditions, affiliated subsidiaries of the Company visited various engineering projects and power generation stations to promote knowledge on occupational disease prevention through various forms, including hanging banners, distributing popular science materials, watching educational videos, organizing online quizzes, and inviting experts to give lectures.

In 2024, under the theme of "Focusing on Prevention to Safeguard Occupational Health", the Company launched a publicity week activity to publicize the *Law of the People's Republic of China on the Prevention and Control of Occupational Diseases*. A total of **268** themed sessions were conducted at the headquarters and project sites, reaching over **7,500** participants. These activities have helped employees build the preventive awareness and acquire practical protection skills.

Occupational health checkups

The Company has organized all affiliated companies to conduct comprehensive occupational health checkups, with special focus on employees working in high-risk environments with occupational hazards such as noise and power-frequency electromagnetic fields, ensuring that all employees have access to pre-employment, on-the-job, and post-employment examinations. In 2024, all employees exposed to occupational hazard factors received occupational health checkups, achieving full coverage. No cases of diagnosed occupational diseases were reported.

► Work safety

Establishing a work safety management system

The Company has established a "three-in-one" work safety management system that integrates assurance, support, and supervision. A comprehensive system framework has been established based on major regulations such as the *Work Safety Management Measures*, *Emergency Management Measures*, and *Work Safety Reward and Punishment Measures*. In addition, the Company has formed a Work Safety Commission chaired by the main heads of the Party and administrative departments at each level to ensure the strict implementation of the principle of "shared responsibility between Party and government, and dual responsibilities for one position", thereby achieving full coverage of work safety responsibilities and significantly improving the safety management efficiency. It has also developed seven comprehensive systems for work safety management, including the organizational system, institutional system, accountability system, risk control system, education and training system, expert support system, and supervision and assurance system.

Fully implementing the responsibilities for work safety

In 2024, the Company organized all departments and subsidiaries to sign more than **5,000** letters of commitment on work safety, covering permanent employees, labor dispatch workers, outsourced staff, and external contractors. It continued to promote the implementation of an all-employee work safety responsibility system and, for the first time, launched responsibility fulfillment performance evaluations for functional departments at the headquarters, and ensured the implementation of the "Three Controls, Three Musts" requirements following the guidance of "performance-based incentives and penalties".

Following the principle of "a higher proportion for a higher risk", the Company established classified and tiered incentive rates for individual safety risk accountability funds to ensure that everyone has access to the safety risk accountability funds, thus maximizing the positive impact of the work safety performance reward mechanism.

Proactively advancing work safety training

The Company has carried out systematic work safety education and training programs targeting Party and government leaders at all levels, safety management personnel, newly hired employees, and external collaborators. Through diverse forms such as weekly safety classes, rotating training for site managers, the "Ankang Cup" work safety knowledge competition, and offshore and fire emergency responder competitions, it has significantly enhanced employees' safety awareness and emergency response capabilities. In 2024, the Company and its affiliated project companies organized over **8,000** safety training sessions, achieving a **100%** percentage of employee coverage. A variety of hands-on training events were also conducted, including training for emergency responders to obtain certification, offshore survival skills competitions, and dam safety knowledge contests, effectively combining learning and practices to strengthen preparedness through competition.



Continually strengthening emergency response capabilities

In 2024, the Company hosted 1 emergency drill for CTG and organized two company-level emergency response exercises. Its affiliated companies carried out more than **1,300** emergency drills, involving over **14,000** participants in total. Among these, more than 10 joint drills were conducted in collaboration with government departments at and above the county level.

Ensuring legal and regulatory compliance in work safety

The Company establishes strict work safety management standards, regularly conducts legal and compliance reviews, and reinforces legal awareness training for all employees to ensure that all work safety-related activities are conducted in full compliance with laws and regulations. During the reporting period, the Company had no legal penalties or lawsuits related to work safety, demonstrating a good image of work safety compliance.

In 2024, the Company spent CNY **347** million on work safety in production operations, accounting for 1.17% of its total operating revenue. In the area of construction projects, CNY **280** million was allocated as work safety expenditures. **100%** was reached in terms of employees' signing rate of the letter of commitment on work safety. A 100% pass rate was reached for all work safety standardization assessments for power production and construction projects. Throughout the year, the Company reported no major or severe personal injury incidents, equipment failures, power safety accidents (or incidents), or minor injury events.



► Career development and training

Position system structure

CTGR has established a well-structured position and job grade system based on the design of its management framework, organizational structure, fulfillment of roles and tasks, and employee training and development needs.

Employee development mechanism

The Company has established a standardized job grading and promotion mechanism to provide employees with upward career pathways, achieving the common development of both employees and the Company.

Promotion channels

The Company has established standardized job grading and promotion systems. The position system includes 4 career sequences, i.e., management, profession, skill, and consulting sequences. Job levels are categorized into 8 hierarchical grades from low to high, each further divided into 2 to 4 sub-levels depending on the different roles. This system has provided employees with ample room for career development.

Promotion mechanism

The Company continuously refines its employee promotion and development system to ensure equal opportunities for all staff. A competitive selection approach is fully implemented, with clearly defined promotion criteria and qualification standards. All employees can apply for promotion through open competition, ensuring an accessible and transparent promotion pathway for employees and creating favorable conditions for outstanding talents to emerge.

The Company has established the Employee Performance Evaluation Measures. It has conducted annual performance reviews on employees, and ensured that the results are fair and impartial, with timely feedback provided to employees. In addition, it has supported the joint growth of employees and business operations. It has developed the human resources plans, aiming to offer tailored development opportunities for employees in different business areas with different role responsibilities based on the needs of the renewable energy sector.

Employee training

The Company places great importance on talent development and actively implements continuous training programs, providing a comprehensive training and development system for all officials and employees. Targeted, phased, and systematic training programs are conducted for core talents, including new hires, young professionals, emerging leaders, and both newly appointed and long-serving middle and senior officials. In 2024, the Company invested over CNY **34** million in training, delivering centralized training sessions to more than **60,000** participants. Each employee received an average of over **250** training hours, with a **100%** training participation rate, which laid a solid talent foundation for the Company's high-quality development.



Training subject	Training content	Training outcomes
Onboarding training	It covers the introduction to company history, business segments, safety, integrity, compliance education; Party lectures; learning Party history; mobile teaching journey integrating Party spirit and green energy through wind, solar, and energy storage; team building activities	It has facilitated the integration of CTGR's corporate culture and strengthened the understanding of the renewable energy industry. It has helped complete role transition, and foster a sense of identity and belonging.
Pre-job training for new employees	It covers job responsibilities, tasks, rules and regulations, workflows, and management requirements. It is a targeted pre-job training covering all business areas in investment and M&A, project management, power marketing, etc. for new employees.	It has helped new employees acquire essential job knowledge and skills, laying a solid foundation for professional development.
Young employee training	It is a training session on safety education and management capabilities for key personnel in preliminary work, engineering, and production, as well as project site leaders, with a focus on strengthening the development of technical experts	It has helped young employees update their knowledge structure, comprehensively improve their overall competence, and gradually enhance their ability to perform job responsibilities.
Core Young Employees training	It covers the Party's innovative theories, Party spirit education, compliance management, team leadership, problem-solving capabilities, communication and coordination abilities, etc.	It has helped young talents strengthen their awareness of Party norms and guidelines, improve their managerial thinking, strengthen their interpersonal insight, and boost their execution capabilities.
Training for newly appointed officials	It covers awareness of Party norms and guidelines, corporate strategy, emerging business models, integrity in professional conduct, compliance management, financial management, human resource management, leadership, etc.	It has enhanced strategic awareness, macro management thinking, and the ability to perform effectively in new positions, laying a solid foundation for the selection and appointment of officials.
Training for officials	It covers the reform of state-owned enterprises and Party building, strategic awareness and decision execution in enterprises, digital technology and corporate innovation, enhancement of leadership and leadership skills, etc.	It has strengthened political education and training to ensure that officials' political literacy, political competence, and managerial capabilities align with their leadership responsibilities, with the goal of completing a full training cycle every three years.
External exchange and training	It covers the introduction to the specialized technologies in photovoltaic systems, civil structure business skills, solar thermal power plant design, and diversified comprehensive abilities.	It has accelerated the cultivation of foundational talent in emerging industries and new technologies, and expanded the Company's pool of multidisciplinary and cross-functional professionals.
Joint training by the enterprise and universities	The Company designated internship and practical training bases for students in North China Electric Power University and Renmin University of China. It has set up training program for Master/PhD students in collaboration with Tsinghua University, Nankai University, Xi'an Jiaotong University, North China Electric Power University, and other universities.	It has improved the Company's talent strength in engineering research and development and strengthened reserves of top-tier, high-level professionals.
Training on the new Company Law of the People's Republic of China	It covers the introduction to the legislative evolution, clause changes, practical applications, and key or complex issues related to the new <i>Company Law of the People's Republic of China</i> .	It has helped the Company's officials and employees better apply the new <i>Company Law of the People's Republic of China</i> and promote the Company's operations in compliance with laws and regulations.
Anti-monopoly and anti-commercial bribery training	It covers the introduction to the legal issues and key points in compliance practices related to anti-monopoly and anti-commercial bribery, as well as relevant domestic and foreign exemplary cases.	It has improved all employees' legal and compliance awareness, strengthened their awareness of integrity and ethical conduct, and improved the Company's ability for operations in compliance with laws and regulations.
Technical talent training	For newly hired employees at power production positions, the training content covers work safety, power generation equipment, power transformation and distribution equipment, office software, regulations and procedures, as well as on-site project cognition and emergency response drills. For technical experts engaged in power production, the training focuses on the core operation and maintenance skills, with skill improvement training conducted in terms of wind and solar power production.	It has helped new employees systematically understand and master the essential knowledge and skills required for power production and prepare them for the job. It has also helped technical experts in integrating theoretical knowledge with practical operations to further enhance their technical proficiency in power production.

Employee training achievements in 2024

Training outcomes	Quantity of employees (persons)
New professional titles earned in 2024	
Intermediate or higher professional titles	386
Others	237
Newly acquired vocational skill levels in 2024	
Senior Engineer and above	146
Others	228

In 2024, over **80%** of the Company's employees obtained professional titles, and **160** employees were newly certified at the senior engineer level or above. Among them, **1** employee was recognized as a Master Technician, **2** were honored as Provincial Technical Experts, and **19** were named Technical Experts by CTG. The cultivation of expert-level and craftsman-level talents has shown steadily increasing results.

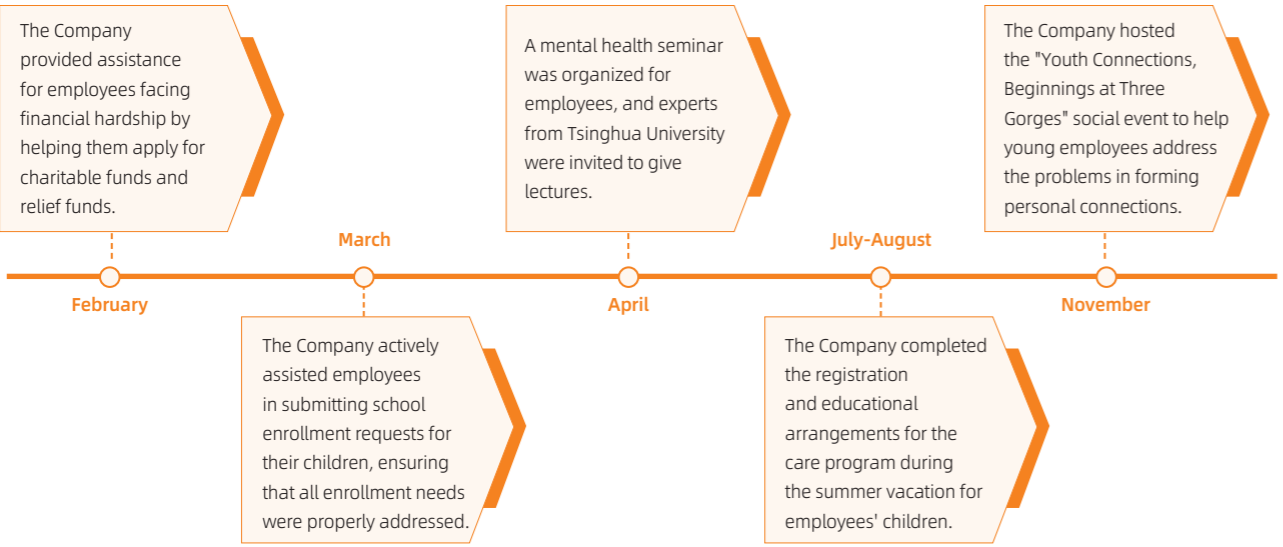
Employee care and support

Caring for the life of employees



CTGR provides all employees with supplementary medical insurance and enterprise annuities, offering strong retirement support and demonstrating consistent care for employees' well-being. These initiatives have increased employees' sense of gain and happiness continuously. It offers a wide range of employee benefits, including access to staff cafeteria, regular health checkups, recuperation programs, birthday and holiday gifts, etc. In addition, it organizes a variety of cultural and sports activities tailored to employees' interests and needs, such as table tennis, basketball, and badminton matches, and Baduanjin fitness competitions. These benefits and activities have reached all employees.

In 2024, the Company actively sought to understand the needs of employees of different age groups and proactively carried out a series of employee assistance activities.



Caring for female employees

The Company is committed to protecting the legal rights and interests of female employees, ensuring the timely and full payment of women's health allowances as required. In 2024, a professional development and technological innovation training program was held to enhance the literacy of female employees. The training was attended by over 200 participants, including female worker committee members from Labour Unions of grassroots units and female representatives from various departments and subsidiaries.

Caring for other special groups

On the occasion of the 2024 Spring Festival and the 75th anniversary of the founding of the People's Republic of China, the Company paid visits and provided care to Party members facing hardship, as well as retired Party members and veteran officials, making them genuinely feel the care and warmth of the Party organization.

Employee satisfaction

The Company is dedicated to fostering harmonious labor relations. In 2024, it conducted 2 employee satisfaction surveys, with participation from over 2,000 employees. To improve employees' well-being and satisfaction, it enhanced the employee compensation system, revised the employee selection and promotion mechanism and improved their work environment. It also enriched their leisure activities and attached great importance to employee feedback by responding promptly.



Rural Revitalization and Social Contributions

Rural revitalization

CTGR has fully implemented the guiding principles of the 20th National Congress of the Communist Party of China and the Second and Third Plenary Sessions of the 20th Central Committee, as well as the directives of the Central Rural Work Conference. Through a multi-dimensional approach, including industrial-driven development, environmental improvement, employment support, educational empowerment, and joint Party-building initiatives, it has greatly contributed to rural revitalization.

The Office of the Leading Group for Fulfilling Social Responsibilities has coordinated the management of the Company's rural revitalization work and revised the *Management Measures for Fulfillment of Social Responsibility Projects*. The Company remains committed to aligning its strengths in clean energy with the resource advantages of rural areas, focusing on long-term development and targeted measures to continuously improve the effectiveness and outcomes of its rural revitalization work.

In 2024, the Company provided high-quality paired assistance in two designated counties, Wan'an County in Jiangxi Province and Bairin Left Banner in Inner Mongolia Autonomous Region, and carried out rural revitalization work in other areas where its business operations are located. The micro-video titled *Song of Fishing Light*, themed around social responsibility, won the 4th Micro Film Award for Core Socialist Values of Central SOEs. Several cases were selected as outstanding examples in the fields of corporate social responsibility and the carbon peaking and carbon neutrality campaign. 2 rural revitalization projects received honors from the Red Cross Society of China, i.e., the 2023 Humanity Medal and the 2023 Dedication Medal.

System construction	>>	The Company further improved its organizational structure and clarified the responsible departments and individuals for each project. It organized training sessions on rural revitalization and fulfillment of social responsibility for officials on secondment and responsibility officers from various subsidiaries to strengthen the consciousness of responsibility among all staff.
Talent assistance	>>	The Company actively implemented the talent training plan for designated counties and banners subject to paired assistance. To be specific, it provided training for approximately 1,900 grassroots officials, nearly 700 rural revitalization leaders, and around 2,600 professionals (including teachers, doctors, and agricultural science and technology personnel) in the two counties (banners).
Consumption support	>>	The Company leveraged e-commerce platforms such as "Three Gorges e-Shop" to launch initiatives including the Spring Consumption Support Campaign and the Consumption Support Week of Central SOEs, with the total consumption support amount exceeding CNY 19 million.
Industrial assistance	>>	The Company developed and operated a series of distinctive "Renewable Energy + Rural Revitalization" projects, including the Wan'an Aqua-PV Project, Quyang PV Project in Hebei, Qingshui Wind Power Project in Gansu, and Shuangliao PV Project in Jilin. It also carried out the requirements for renewable energy development, such as "PV + Agriculture", "PV + Fishery", and "PV + Animal Husbandry", actively explored project applications under the "Wind Power in Thousands of Villages" initiative, and continuously expanded and promoted the "Renewable Energy + Rural Revitalization" model.

Case | PV Power Station Project in Qingshui County, Gansu Province

CTGR has built 3 PV power stations in Qingshui County, which can generate approximately 600 MWh of renewable electricity annually, save 73.74 tons of standard coal, and reduce carbon dioxide emissions by 270.66 tons. Focusing on industrial revitalization, CTGR donated CNY 1.5 million to support the construction of black fungus greenhouses in Qingshui County. It helped complete related auxiliary works such as gate installation, road pavement, laying of water supply pipes, and erection of power lines, continuously addressing local weaknesses and infrastructure gaps. It also partnered with the village Party branch to establish a black fungus cultivation cooperative, which achieves integrated services covering production, supply, and sales, and actively promotes the long-term development of rural industries.



Social contributions

CTGR closely aligns its efforts with its "five characteristics" in fulfilling corporate social responsibility, strengthens the "five synchronizations" measures, and upholds the "five guiding principles" to continually enhance the precision and effectiveness of its fulfillment of social responsibility. In 2024, the Company allocated a total of CNY **116** million in charitable donations.

Public welfare and charity undertakings	The Company actively engages in public welfare initiatives and provides targeted support in areas such as rural revitalization, education, and medical assistance. It also contributes to the development of local public infrastructure and promotes the development of social welfare facilities.
Volunteer services	The Company organizes employees to set up voluntary service teams to conduct a wide range of volunteer activities, including environmental awareness campaigns, community service, and assistance for students in need. These efforts aim to strengthen employees' sense of social responsibility and foster a social atmosphere filled with harmony and compassion.

Leveraging both internal and external resources, the Company has carried out regular volunteer services and developed its own branded volunteer program. In Tongzhou District, Beijing, it organized a charity education campaign at Luhe High School, offering warmth and support to disadvantaged students in specialized classes for Xinjiang students through promotion during school visits, and material donations. It also launched a series of activities such as the "Three Gorges Science Popularization into Schools, Communities, and Villages", actively working in coordination with science associations at the national, provincial, municipal, and county levels to deliver science lectures in schools. Volunteer science education campaigns were also successfully conducted in regions such as Liaoning and Chongqing, allowing the Company's public welfare efforts to take root and flourish in local communities. In 2024, the Company conducted a total of **82** volunteer service activities, with participation from a total of **984** volunteers.

Case | A Touch of Three Gorges Spirit in the Classroom

To thoroughly implement President Xi Jinping's important instructions on volunteer service and science popularization, and to promote the volunteer service brand of "Youth of Three Gorges" in the local area, in November 2024, the Youth League Committee of CTGR Jiangsu Operation and Maintenance Company, together with its first, second, and third Party branches, organized a volunteer activity titled "A Touch of Three Gorges Spirit in the Classroom" at Yandu Experimental School.

The volunteer team prepared a vivid and interesting PowerPoint presentation rich in illustrations. Centered on the topic of clean energy and educational videos on offshore wind power, the team delivered an exciting science class for the elementary school students in attendance. At the end of the activity, the team donated the book *The Magic of Renewable Energy* and a wind turbine model to the school, and provided school supplies for students. The team encouraged the students to learn more about renewable energy, especially offshore wind, and hoped them to become young advocates for clean energy, contributing to the nation's green development.



Suppliers and Customers

► Supply chain resilience

Strengthening supply chain management to build a solid foundation for safety and stability

Supply chain resilience is a key driver of an enterprise's high-quality development. CTGR has always placed great importance on supply chain management and worked to building a secure, efficient, and stable supply system.

CTGR strictly complies with the *Company Law of the People's Republic of China*, the *Law of the People's Republic of China on Tenders and Bids*, and other relevant laws and regulations. In line with SASAC's requirements for benchmarking assessment of procurement management and strengthening supply chain management in central SOEs, it has formulated the *Tendering and Procurement Management Measures*. Following the principles of legality and compliance, openness & fairness, merit-based competition, and efficient coordination, it provides clear guidelines on supplier selection, supply chain risk management, and sustainable development from the management of the entire tendering and procurement process, and implementation of related procedures, enhancing the strength and reliability of the supply chain on all fronts.

Ensuring supply chain resilience to solidify the foundation of enterprise development

The Company continues to deepen strategic cooperation with key suppliers and promote supply chain localization to reduce the reliance on a single market. In accordance with the *Tendering and Procurement Management Measures*, the Company adopts a standardized, centralized, streamlined, digitalized, and collaborative management approach towards tendering and procurement. It actively promotes bundled procurement and framework agreement procurement for similar projects to improve the continuity and stability of critical materials and equipment supply, thus effectively mitigating supply chain risks.



Optimizing supplier selection and strengthening qualification controls

The Company adheres to the principles of "centralized management, information sharing", and "openness, fairness, and equity" in its procurement practices, and adopts strict qualification requirements for supplier selection. Suppliers are subject to stringent entry qualifications and performance evaluations. From warehousing to contract termination, suppliers undergo comprehensive oversight through access reviews, dynamic evaluations, and risk identification and control.

In 2024, the Company conducted annual evaluations for a total of **4,891** suppliers, including **3,455** service providers, **767** goods suppliers, and **669** engineering and construction contractors.

The Company also places strong emphasis on protecting the rights and interests of employees throughout the supply chain. Suppliers, contractors, and service providers having business contacts with the Company are also required to standardize the protection of their employees' rights and interests. In major contracts such as EPC general contracting for construction projects, specific clauses are included to safeguard the legal rights of contractor's personnel. These clauses cover areas such as labor contracts, wage payments, work schedules, accommodations, labor protection, and insurance enrollment.

Registration	Before participating in company-wide tendering and procurement activities, suppliers shall provide relevant information and register through the Company's designated e-procurement platform.
Access	Supplier qualifications are reviewed during the evaluation phase in accordance with the requirements specified in the tendering and procurement documents.
Evaluation	Supplier evaluations are conducted in strict compliance with relevant laws, regulations, and company rules. The credit evaluation applies to all bidders and contract performers participating in the Company's tendering and procurement processes. Routine evaluations, annual evaluations, and dynamic management are combined for credit evaluation. Evaluation results are applied in subsequent procurement activities. Suppliers found to have committed serious credit violations will be blacklisted and prohibited from participating in the Company's tendering and procurement activities for a designated period.

Promoting supply chain sustainability and improving operational efficiency

CTGR actively advances the development of a green and sustainable supply chain system. Based on strict compliance with national laws and regulations, it strives to enhance its influence in all stages of the supply chain. It continuously optimizes its supplier collaboration mechanism and proactively participates in the formulation of industry technical specifications and environmental protection standards.

Throughout the entire tendering and procurement process, the Company fully considers factors such as environmental friendliness, green and low-carbon practices, energy and resource efficiency, and social responsibility, and implements a green and sustainable procurement strategy. By optimizing the technical specifications in tender documents and prioritizing the procurement of energy-saving, water-saving, and material-saving products and services, it works hand in hand with supply chain partners to foster a collaborative, green, low-carbon, and win-win supply chain ecosystem.

- In tender documents for construction project, contractors are required to develop environmental protection measures and plans in accordance with the environmental protection obligations specified in the contract, strictly comply with relevant environmental laws and fulfill their environmental responsibilities to ensure tight control over pollution emissions during construction.
- In the tender documents for key equipment such as components, inverters, and wind turbine towers, green, environmental friendly, and energy-saving measures are incorporated into the evaluation criteria. Suppliers are explicitly required to follow the green management requirements throughout product manufacturing, packaging, transportation, and recycling processes.
- In the tender documents for construction projects, clauses are included to manage the payment of migrant worker wages, clearly requiring that workers' wage rights and interests shall be protected.

Strengthening supply chain risk management to build a solid safety barrier

In response to a complex and rapidly changing market environment, CTGR has established a sound supply chain risk monitoring and early warning mechanism. It has also conducted regular supplier evaluations to proactively identify and avoid potential risks. In addition, it has reinforced legal and compliance management of its supply chain to rigorously prevent quality, safety and legal risks, thereby ensuring the overall reliability of its supply chain system.

► Equal Treatment for SMEs

CTGR follows a cooperative philosophy of openness, transparency, and fairness, continuously optimizing relevant systems to safeguard the rights and interests of SMEs and promote sound development of the industrial chain.

The Company strictly complies with national laws and regulations for tendering and procurement and actively supports SMEs to participate in procurement activities. It has improved its *Tendering and Procurement Management Measures* to explicitly prohibit the setting of unreasonable conditions that would exclude or restrict SMEs from participating in procurement activities, ensuring that all suppliers, particularly SMEs, can compete in a fair, just, and transparent environment. By optimizing the qualification requirements, improving the evaluation mechanism, and enhancing information transparency, it continues to improve the standardization of its procurement management and provide equal cooperation opportunities for SMEs.

In 2024, the Company ensured the normal operations of its SME partners, with no overdue payments to SMEs. In the future, it will continue to deepen its collaboration with SMEs and work together to promote the high-quality development of the green energy supply chain, contributing to the establishment of a fair, equitable, and sustainable market ecosystem.

► Product safety & quality assurance

As a renewable energy power generation enterprise, CTGR primarily produces electricity. It places high priority on safety and quality management of power production. Following the quality policy of "innovation-driven development, law-abiding and compliant operations, excellence in construction quality, lean operations, meticulous maintenance, guarantee of safe and stable power generation, adaption to changing circumstances, alignment with policies, and active response to customer needs", it has established a comprehensive safety and quality management system and achieved the overall improvement in quality of engineering construction, power production, and customer demand responses.

Institutional development

The Company strictly complies with the *Product Quality Law of the People's Republic of China*, *Electricity Law of the People's Republic of China*, and other relevant laws and regulations. It has developed 26 quality-related management systems, including the *Quality Management System*, *Power Production Management System*, and *Project Construction Management Measures*. Project companies have formulated detailed operational procedures, maintenance manuals, operating diagrams, and work instructions based on their specific business needs to strictly implement production standards, guarantee the safety and controllability of production quality, and meet the quality management requirements for the wind power, photovoltaic, hydropower, hydrogen energy, and energy storage sectors.

The Company places great emphasis on product quality and customer feedback. It conducts comprehensive supervision over construction projects, materials and equipment, operation and maintenance, electric power, and service quality to ensure the effective implementation of quality standards. The Company has obtained ISO 9001 certification, which covers all of its affiliated companies.

In 2024, the Company further strengthened its management of power production specifications for emerging business models. It issued several documents, including the *Detailed Measures for the Operation and Maintenance Management of Solar Thermal Power Plants (Trial)*, *Technical Guidelines on Equipment Handover for Production in Solar Thermal Power Plants*, and *Technical Guidelines on Equipment Handover for Production in Electrochemical Energy Storage Power Plants (Trial)*, to standardize the production and operation of solar thermal and energy storage projects.



Quality management

The Company places great emphasis on work safety and quality risk management. It has developed quality and safety management regulations and standards, and clearly defined the responsible departments. Based on its business characteristics and strategic direction, it has identified internal and external environments and stakeholder needs, conducted dynamic risk assessments, and formulated corresponding risk mitigation measures based on the assessment results.

Strictly fulfilling quality management responsibilities

Management of power production quality	The Company has continuously enhanced the operational stability and reliability of its equipment and facilities by deepening the concept of lean management, implementing standardized maintenance and operation, building a defect early warning system, and carrying out targeted technical upgrades. For power plants newly connected to the grid, it has ensured the completion of grid-related testing and collaborated with grid operators to optimize AGC and AVC, thereby ensuring that the quality of electricity output meets relevant standards.
Management of engineering construction quality	The Company has achieved standardization of quality management systems, normalized risk control, and closed-loop issue resolution by establishing quality indicators, optimizing supplier management, strengthening process monitoring, and implementing a life-time responsibility system, and ensured the quality compliance of construction projects in the whole life cycle. Project companies bear the primary responsibility and 12 core duties, including review of construction plans and equipment supervision. This helps form a closed-loop quality control system covering tendering and procurement, construction acceptance, and information reporting.
Management of supervisory quality	Supervision companies must meet the qualification requirements, possess a sound system, and operate independently without conflicts of interest with the Company. Regional offices and project companies are responsible for overseeing their performance of responsibilities, which cover more than 10 aspects including qualification review, plan approval, on-site supervision, and organization of acceptance. Particular attention is given to the management of construction quality, design changes, and closure of corrective actions. Process traceability is reinforced through detailed records and regular reporting, ensuring full traceability throughout the entire engineering supervision process.
Management of survey and design quality	With contract-based accountability, review responsibilities, and technical evaluation as prerequisites, regional offices and project companies oversee 8 key responsibilities, including qualification compliance, document review, and standard implementation, to ensure full-process compliant control of design documentation. Focus is placed on strengthening technical evaluations for the application of new technologies, new processes, new materials, and new equipment ("Four News"), specification of material and equipment parameters, technical support for on-site issues, and participation in project acceptance. Design risks are proactively mitigated and technical guarantee is provided through multi-scheme comparisons, presence of design representatives, and retrospective analysis of quality incidents.
Management of construction quality	Centered on qualification review, contract-based accountability, and process supervision, the Company prohibits low-price bidding, out-of-scope contracting, and illegal subcontracting. Project companies are responsible for supervising 11 core duties, including certified training, conceptual development, construction according to drawings, and materials inspection and reporting. Key control areas include joint verification of concealed works, authenticity traceability of quality records, and closed-loop defect rectification. Through performance guarantees, regular inspections, involvement in acceptance, and incident reporting, the Company has achieved full compliance throughout the construction process, and strengthened design implementation, process inspections, and real-time risk response to ensure full traceability of quality responsibilities.
Management of equipment and material quality	Focusing on technical specifications, supply chain control, and traceable acceptance, design companies can define parameter requirements without naming specific manufacturers. Production and transportation shall comply with packaging standards and be properly insured. The supervisor implements a tripartite witnessing system after equipment and materials are delivered to the site, and enforces strict oversight and control over any prohibited materials or equipment. In terms of warehouse management, a clearly defined accountability system is rigorously implemented for both departure and warehousing processes. Full-process records cover contracts, inspections, manufacturing supervision, transportation, etc., forming a closed-loop, traceable system from procurement to production, transport, warehousing, and utilization, which ensures compliant parameters, controllable processes and traceable quality.

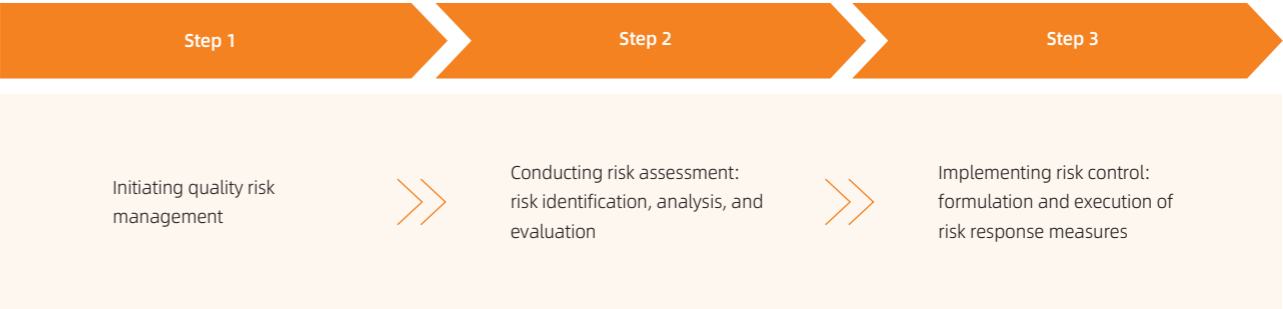
Proactively advancing quality improvement measures

In accordance with the *Quality Management System* and requirements of the quality management regulations, the Company carries out company-wide quality and safety supervisions and inspections. Mechanisms such as "Clear Explanation of Hazards", warning and case analysis meetings, and performance-based rewards and penalties have been established to promote issue rectification. The Company also conducted Quality Control (QC) team activities and activities for the development of "trustworthy quality teams" to enhance the quality of products and services. In 2024, the Company achieved outstanding results in QC team achievement exchange of the power industry, earning **2** special prizes, **8** first prizes, **18** second prizes, and **5** third prizes.

Improving quality risk management on all fronts

The Company places great emphasis on quality risk management. It has developed quality management regulations and clearly defined the responsible departments. Based on its business characteristics and strategic direction, it has identified internal and external environments and stakeholder needs, conducted dynamic quality risk assessments, and formulated corresponding risk mitigation measures based on the assessment results.

Quality risk management process



Quality management achievements

- In 2024, the Company conducted **126** quality and safety supervision and inspection events, covering **85** projects (sites) at the Company level, achieving a **98%** rectification rate for identified hazards. It underwent on-site supervision and inspections conducted by CTG **13** times, covering **16** inspection items. Disciplinary actions were taken against individuals responsible for typical and major hazards identified during the quality and safety supervision and inspection. For 5 major accident hazards for reference and 14 typical hazards identified during the supervision and inspection, the Company held **6** warning and analysis meetings to promote corrective actions. All corrective measures for the major accident hazards for reference and typical hazards have been fully completed.
- In 2024, the Company reported zero safety or quality liability incidents related to its products or services, nor did it receive any product recalls or customer complaints, fully demonstrating the effectiveness of its efforts in safety and quality management of power production.

CTGR's quality management targets and status of fulfillment are as follows:

S/N	Quality management targets	Performance
1	There should be no occurrence of Level 3 or above adverse quality incidents, and no safety accidents caused by quality hazards.	CTGR had no adverse quality incidents or safety accidents caused by quality hazards.
2	For construction projects, the one-time acceptance pass rate for unit projects should reach 100%; for partitioned projects and sub-project; it should be over 98%; for unit works or inspection batches, it should be over 90%. For goods procurement, the one-time acceptance pass rate should exceed 98% when calculated based on the number of acceptance batches specified in the contract. There should be no major or severe quality incidents related to projects or equipment. Construction project quality should meet or exceed the level of similar leading projects at home.	These targets were fully met.
3	For operational projects, the pass rate of electricity quality should meet the local grid requirements, or national and industry standards; the average equipment utilization hours should not be shorter than the local and current average service hours; the power loss rate due to faults should not exceed 0.8%; the average number of unplanned outages per station should not exceed 0.2; there are no major or severe power safety incidents; operational project quality should meet or exceed the level of similar leading projects at home.	These targets were fully met.
4	The customer satisfaction rate should exceed 90%, and there should be no customer complaints.	The customer satisfaction rate exceeded 90%, with no customer complaints.

[Note: For details on the response to the Company's performance in work safety, please refer to the "Occupational Health and Work Safety" section of this Report.]

Data security & customer privacy

CTGR addresses data security & customer privacy throughout its core operational processes, including data collection, storage, processing, and usage. The scope of protected data includes both personal information and business data.

The Company has strictly complied with the *Cybersecurity Law of the People's Republic of China*, *Data Security Law of the People's Republic of China*, and *Personal Information Protection Law of the People's Republic of China*. It has issued two internal regulations, including *Data Asset Management Measures (Trial)* and *Data Security Management Measures*, and established a sound data security governance system. The Leading Group for Cybersecurity and IT Application is responsible for making decisions; while the Smart Operation Center (Digital Management Center) is responsible for the implementation. Digitalization has been achieved in all business operations and organizations, ensuring systematic and efficient data security management.



The Company strictly controls data processing and sharing activities. All internal and external data sharing is required to undergo assessments and approval procedures, and process control is achieved through the BPM system and intelligent operation and maintenance platform. Data involving state secrets or the Company's business secrets and all related processing activities must comply with applicable national confidentiality laws and regulations and the Company's internal confidentiality regulations. The Company organized the data processors and data providers to sign a total of 258 agreements, including confidentiality agreements and data security commitments. During the reporting period, the Company reported no incidents (accidents) of customer privacy leakage, data security violations, or leaks involving large volumes of sensitive or higher-level data. **It has achieved a perfect score for six consecutive years in the country-level cyber-security defense exercises.**

When signing cooperation agreements with partners, the Company ensures that confidentiality clauses are included in every contract, achieving **100%** coverage, effectively implementing the Company's data security & customer privacy regulations.



Governance

We have strictly complied with national laws and regulations as well as regulatory requirements for listing. We have continuously improved our corporate governance structure and deeply integrated ESG concepts with market-oriented operating mechanisms to ensure our stable operation.

The SDGs addressed in this Chapter



Corporate Governance

► Organizational structure and functions

CTGR has improved its organizational system and established a corporate governance structure consisting of the General Meeting of Shareholders, Board of Directors and its specialized committees, Supervisory Board, and senior management personnel. In accordance with the requirements of the *Company Law of the People's Republic of China*, the *Securities Law of the People's Republic of China*, the *Rules Governing the Listing of Stocks on the Shanghai Stock Exchange*, and relevant laws and regulations of the China Securities Regulatory Commission, it has formulated systems such as the *Articles of Association*, the *Rules of Procedure for the General Meeting of Shareholders*, the *Rules of Procedure for the Board of Directors*, and the *Rules of Procedure for the Supervisory Board* to standardize the convening of meetings of the General Meeting of Shareholders, the Board of Directors, and the Supervisory Board. Each specialized committee has fulfilled its corresponding responsibilities to make management decisions and supervise the operation of the Company.

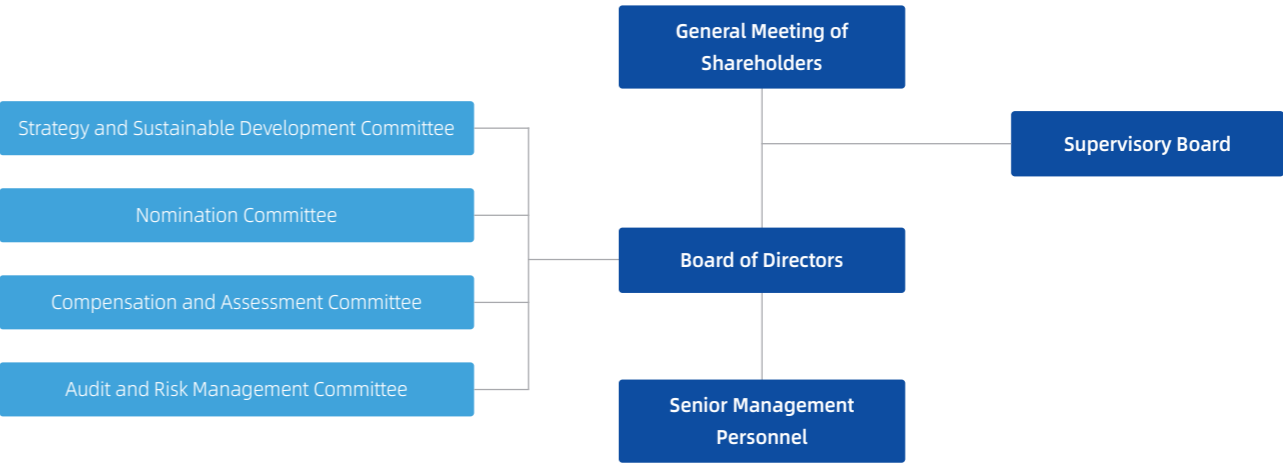
The Board of Directors is responsible for CTGR's development strategies and medium-to-long-term development plans. The management team executes the operational strategies formulated by the Board of Directors. Four committees are set up under the Board of Directors, namely Audit and Risk Management Committee, Compensation and Assessment Committee, Nomination Committee, and Strategy and Sustainable Development Committee. The Supervisory Board exercises its supervisory functions in accordance with the laws and regulations, and the provisions of the *Articles of Association*.


The Board of Directors plans the convening of the "three meetings" in a science-based way to ensure standardized operation. **3** shareholders' meetings, **14** meetings of the Board of Directors, and **7** meetings of the Supervisory Board were held under the leadership of the Board of Directors throughout the year, effectively improving the timeliness of decision-making.

As of April 30th, 2025, the Board of Directors is composed of 9 directors, including 3 internal directors, 1 external director nominated by the controlling shareholder - China Three Gorges Corporation, 1 director recommended by the shareholder - Ducheng Weiye Group Co., Ltd. and 1 director recommended by the shareholder - China Hydropower Engineering Consulting Corporation Limited and 3 independent directors. 3 independent directors are experts in the power industry, legal profession, and financial management, thus meeting the requirements of diverse professional experience and complementary ability structure of the Board of Directors.

The Supervisory Board consists of 3 supervisors, including 2 shareholder supervisors and 1 employee supervisor. The supervisors have professional experience in financial management, risk management, internal control auditing, capital operations, etc., which can ensure that the Board of Supervisors effectively performs its supervisory functions.

Senior management personnel of CTGR are composed of: President, Vice President, Chief Accountant, General Counsel and Board Secretary. As of April 30th, 2025, CTGR has a total of 7 senior management personnel, including 1 with a doctoral degree, 4 with a master's degree, and 2 with a bachelor's degree.





Diversified Board of Directors

9 directors

Including **6** external directors
(including **3** independent directors)



Appointment procedure and composition

Appointment procedure	Director	The Employee Representatives Congress shall elect employee directors; while the General Meeting of Shareholders shall elect other directors.
	Supervisor	The Employee Representatives Congress shall elect employee supervisors; while the General Meeting of Shareholders shall elect other supervisors.
	Senior Management Personnel	The President and Board Secretary shall be nominated by the Chairman, and other senior management personnel shall be nominated by the President. The appointment or dismissal of senior management personnel shall be approved by the Board of Directors.

	As of April 30, 2025		
Director	Age	40~50	2 persons
		50~60	5 persons
		Over 60	2 persons
	Gender	Male	8 persons
		Female	1 person
Supervisor	Age	40~50	1 person
		50~60	2 persons
	Gender	Male	1 person
		Female	2 persons
Senior management personnel	Age	30~40	0 person
		40~50	5 persons
		50~60	2 persons
	Gender	Male	5 persons
		Female	2 persons

In April 2025, CTGR added 1 female director, increasing the proportion of female directors to 11.1% and further promoting the diversified development of the Board of Directors.

Executive compensation transparency

Compensation management

Compensation system for directors, supervisors, and senior management personnel

CTGR formulates a compensation plan for its directors and supervisors in accordance with the relevant compensation management system. It submits the annual compensation proposals of its directors and supervisors to the Board of Directors, Supervisory Board, and General Meeting of Shareholders for review, and synchronously discloses the compensation of directors, supervisors, and senior management personnel in its annual report. According to the compensation plan for CTGR directors, supervisors, and senior management personnel, their compensation includes a fixed salary and a variable pay, as well as social insurance, housing provident fund, enterprise annuity, and supplementary medical insurance provided by CTGR. The fixed salary includes position-based and job grade-based annual salaries; while the variable pay includes annual performance-based salary, term incentives and others. CTGR has established its stock incentive policy, which allows directors and senior management personnel who meet the incentive criteria to enjoy stock incentives.

Rationality of compensation for the Management

The Company has strict requirements for the rationality of compensation for the Management. It has established a diversified senior management personnel compensation system driven by business performance and constrained by ESG performance. The compensation of senior management personnel is strictly linked to the Company's business performance, assessment results of personal business performance, and results of comprehensive assessment on personal performance. ESG indicators such as environmental protection and work safety are listed as binding indicators for personal business performance assessment, and ultimately affect their compensation. If the annual comprehensive assessment of management team members is rated as "incompetent", or their business performance assessment is graded as "unqualified" with the main indicators failing to meet the bottom line, their performance-based salary for that year will be canceled.

Key assessment areas include renewable energy project development, ecological environment protection, technological innovation, work safety, and compliance management. These are incorporated into the performance evaluation indicators of the Company, relevant departments, and affiliated companies. In accordance with relevant evaluation procedures, performance reviews are conducted for corresponding leaders, with the evaluation results linked to their compensation, thus establishing a transmission system and governance framework with reinforced fulfillment of responsibilities at every level.

The Company simultaneously establishes and continuously improves a mechanism for the recovery and deduction of compensation for senior management personnel, covering in-service, resigned, and retired personnel. For senior management personnel who fail to perform or correctly perform their duties and cause asset losses to the Company, their annual performance-based salary will be deducted, and all paid performance-based salary and term incentives will be recovered.

Strengthening supply chain management to build a solid foundation for safety and stability

The Company adheres to the goal of "zero errors" in information disclosure. Throughout the year, it prepared and disclosed a total of **133** documents, including **4** annual reports, semi-annual reports and other regular reports, **80** temporary announcements, and **49** unpublished documents.

The Company continuously improves the quality of disclosure with three measures, achieving a "zero error" in information disclosure for the whole year:

- The Company strictly follows the internal and external information disclosure regulations such as the *Governance Standards for Listed Companies* and the *Rules Governing the Listing of Stocks on the Shanghai Stock Exchange*. It implements the principle of "utmost disclosure", establishes a "three-round review and revision process", and optimizes the entire process review and internal control system.
- The Company builds a cross-departmental collaboration platform and establishes a normalized communication mechanism to communicate more about business dynamics and information disclosure needs.
- The Company expands the dimensions of information disclosure and provides effective support for investor decision-making by mining value information and enriching presentation forms.

To strengthen external supervision, the Company hires an external firm to regularly monitor, audit, and evaluate the information disclosed by it. Specifically, it hired Pan-China Certified Public Accountants LLP to conduct internal control audits, and the audit opinions on the audit report indicate that CTGR had maintained effective internal controls on financial reporting in all material aspects in accordance with the *Basic Norms for Enterprise Internal Control* and relevant regulations as December 31st, 2024.

Disclosure of financial information

The Company has formulated the *Information Disclosure Measures for Credit Bonds*, and disclosed information truthfully, accurately, completely, timely, and fairly during the issuance and tenor of bonds in strict accordance with relevant laws and regulations such as the *Information Disclosure Measures for Credit Bonds* and the *Rules for Information Disclosure of Debt Financing Instruments of Non-financial Enterprises in the Interbank Bond Market*. These efforts standardized information disclosure behaviors of CTGR during the issuance of credit bonds in the bond market and provided strong protection for the legitimate rights and interests of investors.

► Compliance and risks

Governance

CTGR has followed the requirements of laws and regulations such as the *Measures for the Compliance Management of Central State-owned Enterprises* and attached great importance to the development of the compliance operation system. It has also revised and improved the *Compliance Management System*, *Contract Management System*, *Detailed Rules for Evaluating the Effectiveness of Rule of Law Development and Compliance Management System* and other systems. Besides, it has organized publicity and training activities on *Internal Control Management Manual* and other topics, embedded the compliance operation system into each business process and key node, and continued to improve the compliance management system.

CTGR has strengthened the top-level design of compliance management, and fully leveraged the core leadership role of the Party committee, the decision-making role of the Board of Directors, and the operation & management role of the management team to optimize and enhance the compliance management mechanism and effectively fulfill management responsibilities. It has continued to extend its compliance management chain and insisted on promoting the transformation of rule of law and compliance work from being led by responsible departments to a coordinated work involving all employees. Besides, it has promoted the integration of the "five-sphere integrated plan" for internal control system of legal compliance risks and advanced the gradual improvement of its compliance management system.

Strategy

CTGR has insisted on compliance requirements to be followed by all its employees in all business areas, departments, subsidiaries and branches at all levels during the entire process of its business & management behaviors. It has also promoted the coordination and integration of compliance management with legal risk prevention, supervision, auditing, internal control, risk management, etc., to ensure the effective operation of the compliance management system.

Identification of major risks

In 2024, CTGR accurately screened out 5 major business risks based on the risk investigations for major projects in key areas and the risk assessment questionnaires for key positions. It conducted in-depth investigations and analyses on these risks, formulated corresponding control measures, and strictly implemented risk control requirements.

CTGR provided a detailed description of the potential risks it may face in its Annual Report 2024. Please refer to the content of "(IV) Potential Risks in VI. Discussions and Analyses of CTGR's Future Development in Section III: Discussions and Analyses of the Management Team".

Analysis of compliance opportunities

The rapid development of the renewable energy industry has raised higher requirements for compliance management. If effective control of compliance risks is ignored, it may result in construction delays of projects, increased costs, and even lead to adverse consequences such as disputes and penalties. By building an efficient compliance system, enterprises can transform traditional risk control costs into competitive advantages, further enhance investor confidence and drive asset appreciation, market value resilience, and brand premium, thus to help them achieve sustainable development.

Impacts, risks, and opportunities management

Building a risk warning system in an innovative way

Guided by the *Risk Management Guidelines for Central State-Owned Enterprises* issued by the State-owned Assets Supervision and Administration Commission (SASAC) and the framework and process of company operation and management, CTGR has selected indicators which are closely related to annual production and operation tasks and have a significant impact to build the *Major Risk Database and Key Monitoring Indicator Table of China Three Gorges Renewables (Group) Co., Ltd.* In this way, it has achieved continuous tracking and monitoring of its major risks and key monitoring indicators.

Launching risk control and tracking

CTGR has established three lines of defense for internal control of compliance risks, continuously fulfilled the responsibilities of relevant entities for risk prevention and control, and prevented the cascade and amplification of risks, and evolution into systemic risks.

First line of defense

Business departments, branches, subsidiaries, project companies

They identify front-end business risks, including business risk identification, assessment, response, detection, and reporting.

Second line of defense

Department of Legal Affairs and Compliance

It strengthens the communication mechanism of compliance management information, provides service guarantees at the front line of business and establishes and improves institutional systems. It also assists business departments, branches, subsidiaries, project companies in risk identification and control, including ex-ante evaluation, in-process management, and ex-post coordination.

Third line of defense

Audit Department and Discipline Inspection Department

They are responsible for supervising the implementation of the Company's risk management systems, processes, and control procedures to ensure legal and compliant execution process.

CTGR has synchronously established a risk tracking and control mechanism, which is a closed-loop management mechanism where it strictly implements quarterly monitoring, reporting, tracking and supervision for major annual risks. Besides, it has closely tracked risk events and hidden dangers, worked with relevant departments and subsidiaries to timely, properly handle and resolve them, and strictly adhered to the bottom line of no major risks.

Implementing a comprehensive risk reporting mechanism

CTGR has tracked major risk management statuses and the latest risk dynamics and generated quarterly risk reports based on these data. At the end of each year, it reviewed and summarized the annual risk management work based on the implementation of major risk control measures and the control of business risks of major projects in key areas, and reported the work to the Party committee and the Board of Directors of CTGR.

Continuing to manage major business risk events

CTGR has established a working mechanism for reporting of discussion results of major risk events, response & handling, tracking & monitoring, warning notifications, and accountability & rectification. Based on the different stages of major risk events, it has continued to submit tracking reports in four ways (i.e., an initial report, a follow-up report, a tracking report, and a final report), to achieve continuous monitoring and timely handling of major business risk events.

CTGR has continued to strengthen compliance and risk management by seizing development opportunities, worked to ensure lawful and compliant operation, and safeguarded its high-quality development.

Indicators and goals

CTGR has conducted a comprehensive risk assessment on major projects, projects under construction, and key areas. As a result, it has identified 5 major risks, formulated more than 30 control measures and formed a ledger for major risk control. It has strictly implemented control measures, strengthened risk prevention and control responsibilities and avoided systematic and disruptive risks to ensure that business risks are controllable and under control. CTGR did not have any major business risk events in 2024.



Business Conduct

► Business planning and layout

Governance

CTGR has strengthened compliance development and improved strategic decision-making efficiency. It has established a sound investment authorization and compliance management system that adapts to the development characteristics of renewable energy business, and put more efforts in the development of professional teams. Besides, it has strengthened overall industry analysis to ensure precise matching of its actions with policy guidance and market dynamics and to provide supports for high-quality business development in all respects.

Strategy

CTGR plans to accelerate the development and construction of large-scale wind power and photovoltaic bases in deserts, gobi, and wilderness. It also has plans to promote the development of offshore wind power towards deep waters and distant shores orderly, and to build core capabilities featuring "forward-looking project planning, multi-scenario scheme preparation, and comprehensive communication and coordination". CTGR plans and deploys system-supporting flexible resources such as solar thermal power plants, new energy storage, and high-quality pumped hydro in a steady and orderly manner, while exploring diversified collaborative models including dual co-development and integrated generation-grid-load-storage solutions. In addition, it plans to continuously improve its management level and asset operation capability and strengthen the lean management level of project construction, operation & maintenance, and power marketing. It seeks to optimize business capabilities such as scheme review, cost control, intelligent operation & maintenance, and marketing planning, and continuously enhance its competitiveness under the new development context.

Intensified market competition and heightened revenue risks

China's current power market has shifted from the "planned market-based" model to the "fully market-driven" model, and power spot markets in many provinces have entered formal operation. The settlement differences of renewable energy in the market continue to widen. Coupled with the costs of sharing power auxiliary services, conducting system deviation assessments, and adding supporting energy storage facilities, the operating pressure of renewable energy projects will also increase accordingly. In addition, the energy storage industry is gradually shifting towards market-oriented operation, and independent energy storage power stations need to pass stability and economic benefit verifications, with a generally long investment return cycle.

Core challenges

Continuous tightening of eco-system and land constraints

After the "Third National Land Survey", the project site selection faces compliance risks arising from the adjustment of land nature. The new policy of the Ministry of Ecology and Environment in 2024 requires the ecological protection of onshore wind and solar powers during full lifecycle, and the approval period for forest land and grassland will be significantly extended. Coastal provinces have added ecological restoration clauses for sea use approval, resulting in increased costs in the early stage of projects. New regulations such as ecological red lines and forestland occupation further compress the space for compliance tolerance.

Industry opportunities

Top-level design promotes large-scale development

The top-level planning and policies for renewable energy in China have injected strong momentum into the wind power and photovoltaic industry. We focus on promoting the construction of the wind power and photovoltaic bases in deserts, gobi, and wilderness and offshore wind power bases. We also intend to promote the market-oriented consumption of green electricity, and innovate and expand profitable channels through market mechanisms such as green certificate trading and virtual power plants.

Power source-load interaction and multiple energy source complementarity expand application scenarios

Energy storage technology has become a key support for the large-scale development of renewable energy, and new energy storage technologies such as sodium ion batteries and flow batteries are accelerating commercialization. New models such as shared energy storage and virtual power plants have emerged, and cross-border integration models such as "photovoltaic + hydrogen production", "wind power + energy storage", and "photovoltaic + ecological governance" have been popular. The development of green and low-carbon economy and society has become more diversified.

Efficiency improvement and intelligent transformation accelerate industry cost reduction and efficiency improvement

The breakthrough of wind power and photovoltaic technology has become the core driving force of the industry. In the field of photovoltaics, the commercialization of high-efficiency battery technologies (such as perovskite and heterojunction) is accelerating, with module conversion efficiency increasing to over 25%, driving down the cost of electricity per kilowatt hour. In terms of wind power, high-power units of above 10 MW have gradually been applied on a large scale, and floating foundation technology has achieved breakthroughs in deep-sea resource development, driving down the cost of electricity per kilowatt hour. Intelligent operation and maintenance technologies have been widely used, and UAV inspection, digital twin systems and others have continuously reduced the failure rate and operation & maintenance costs of wind power facilities.

New quality productive forces empower technological iteration

Renewable energy technology innovation is entering an era of explosive growth, with unit capacity of offshore wind turbines exceeding 20 MW, and floating wind turbines achieving a breakthrough in localization. Technological integration has accelerated the innovation of energy business models, for example, "renewable energy + energy storage" and "green electricity + hydrogen production" models have expanded the application scenarios. In 2024, "new quality productive forces" were included in the work report of the government. Preferential policies will promote breakthroughs in cutting-edge fields such as new materials and intelligent control, driving industries to leap towards green and intelligent development.

Impacts, risks, and opportunities management

- Carry out fine management throughout the entire cycle; justify project risks and benefits in a science-based and prudent way; control operating costs and other non-operating expenses; strengthen the intelligent operation level of the power station; improve the quality and efficiency of operation and maintenance.
- Make every effort to build an innovative enterprise; strengthen compliance management; enhance the cultivation of an honest team; coordinate high-quality development and high-level innovation; promote the intensive and professional development.
- Make every endeavor to improve the level of marketing and plan ahead for the development strategies of renewable energy entering the market in full swing.

Indicators and goals

- Earnestly implement the new strategy for energy security; steadily advance the national carbon peaking and carbon neutrality goals; strive for a green and low-carbon energy transition; support the construction of a modern power system and a new energy system.
- Deepen enterprise reform; ensure more rational business planning and layout; enhance core functions and core competitiveness; highlight benefit orientation; strengthen full life cycle management; shape differentiated competitive advantages; strive to move towards a world-class renewable energy enterprise with a reasonable industrial structure, excellent asset quality, significant economic benefits, and advanced management level.
- Strengthen, optimize, and expand the main business of renewable energy; work to maintain a leading position in offshore wind power; make efforts to lead the domestic market in onshore wind power and photovoltaic power; work hard to maintain excellence in the business level, quality, and efficiency; take pains to ensure significant achievements in innovation development.

► Anti-bribery & anti-corruption

Construction of management systems

CTGR has strictly adhered to relevant laws and regulations and established a comprehensive system for anti-bribery & anti-corruption. It has set up the Integrity Department and the Department of Legal Affairs and Compliance (Department of Enterprise Management). Besides, it has formulated systems such as the *Disciplinary Management Policy for Employees* and the *Supervision and Inspection Measures for the Implementation of the Eight-point Decision of the CPC Central Committee on Improving Party Conduct and Its Implementation Rules*. During the reporting period, it formulated (revised) **79** management systems, including the *Rules of Procedure for the Discipline Inspection Commission*, the *Integrity File Management Guidelines*, and the *Implementation Rules for Business Entertainment*. It continuously improved its internal control system, developed its systems, and standardized the exercise of power to compress the space for corruption problems.

Anti-bribery & anti-corruption measures

By combining its own risk management needs, CTGR has adhered to risk-oriented principle and formulated science-based annual plans for internal audit projects, which are to be issued after the approval by its Board of Directors. In 2024, CTGR completed a total of **37** audit projects and held 3 audit rectification and supervision meetings. It has fully achieved the goals in annual plans, identified 419 risks, and realized **100%** completion rate of rectification due for problems discovered in previous years. The audit scope included 243 subsidiaries at all levels and 12 leaders, with key areas **100%** covered.

Planned frequency for audit	Subsidiaries	At least one round of audit every 5 years
	Major investment projects, major risk areas, and important subsidiaries	At least one audit a year
	Key positions and important links responsible for fund approval and specific operations	Regular supervision
	Main leaders of branches and subsidiaries that are responsible for fulfilling economic responsibilities	At least one audit during the term of office

CTGR has adhered to compliant, honest procurement practices, and had zero tolerance for suppliers' violations of business ethics and honest actions. It requires all winning (successful) suppliers to sign an *Integrity Agreement and a Compliance Commitment Letter*, clarifying that suppliers can't be ordered to suspend operations, have their assets taken over or frozen, be listed in the list of enterprises with serious legal violations and dishonesty or dishonest debtors subject to enforcement. At the same time, it carries out an evaluation on them.

Reporting mechanism and whistleblower protection

CTGR applies a clear stakeholder appeal and reporting mechanism and a whistleblower protection policy. It encourages citizens, legal entities, or other organizations to give feedback, suggestions and opinions by way of information networks, letters, phone calls, faxes, visits, etc. Besides, it prohibits the disclosure of personal information of whistleblowers and protects their legitimate rights and interests. The mailing address for reporting is Integrity Department of CTGR, No. 5 Building, Chengda Center, No. 2 Compound, Liangshi Street, Tongzhou District, Beijing. Furthermore, it issued the *Petition Handling Procedures*, clearly stipulating that complainants' reporting materials and relevant information shall not be disclosed or transferred to accused individuals, departments, or organizations.

Building of honest culture

The Company actively promotes the building of honest culture. In 2024, the Company urged the signing of **372** copies of the *Responsibility Letter for Party Conduct and Clean Governance Construction and Anti-corruption* at all levels, **2,392** copies of the *Integrity Commitment Letter for Key Positions* at all levels, and organized **2,314** leaders and employees in key positions to complete the declaration for upholding integrity in employment.

In 2024, the Company organized anti-corruption training sessions for all employees including members of the Board of Directors and the management team, including **4** seminars on compliance management and disciplinary supervision, **19** hierarchical warning education sessions at all levels, and **113** Party courses given by Party secretaries at all levels. The training sessions covered **8** directors, **7** Party committee leaders, **210** middle-level and senior leaders, and over 3,000 ordinary employees, with a participation rate of **100%** for employees at all levels. Besides, the Company reminded more than **26,000** employees of adherence to integrity throughout the year, and simultaneously carried out activities such as integrity messages, story-telling about family rules, family ethics and family traditions, and collection of honest culture works, covering **6,492** people.



Risk assessment of commercial bribery and corruption



► Anti-unfair competition

CTGR has attached great importance to fair competition management. It has issued the *Non-disclosure Agreement*, the *Integrity Commitment*, and the *Compliance Commitment Letter for Business Partners* to prevent unfair competition behaviors and safeguard its trade secrets and business compliance. Besides, it has updated and improved the systems regularly to ensure compliance with the latest legal requirements and realities.

CTGR focuses on system constraints and publicity of legal affairs to strengthen the prevention of unfair competition risks in all respects. In principle, to sign an external contract, suppliers are required to sign the *Integrity Commitment*, and the *Compliance Commitment Letter for Business Partners* simultaneously. It continues to improve the legal, compliant proficiency, integrity and ethics awareness and capability for lawful and compliant business operations of all employees. In December 2024, CTGR relied on the renewable energy course series to popularize law and held an award-winning law popularization quiz activity lasting for a half month, attracting nearly 1,000 participants. After the promulgation of the *Anti-Unfair Competition Law of the People's Republic of China*, CTGR immediately invited anti-monopoly experts to give lectures on legal issues such as anti-monopoly and anti-commercial bribery. By analyzing the key points of compliance practices regarding anti-monopoly and anti-commercial bribery, possible consequences, and precautions one by one, the experts explained and analyzed typical cases at home and abroad, and put forward response suggestions. A total of more than 300 employees participated on-site or online, internalizing external legal provisions into CTGR's daily compliance operation requirements, and further enhancing CTGR's prevention awareness of compliance operation risks.

In 2024, CTGR recorded no incidents of unfair competition.

► Related transactions

CTGR strictly complies with the management system requirements for related transactions of listed companies. Its related transactions follow the principles of equality, voluntariness, equivalence, and compensation, ensuring fairness and safeguarding the legitimate rights and interests of CTGR and all shareholders. CTGR has prepared the *Related Transaction Management System* and the *Implementation Rules for the Management of Related Transactions*, and established and improved the *Internal Control System for Related Transactions* in accordance with the laws and regulations such as the *Company Law of the People's Republic of China*, the *Rules Governing the Listing of Stocks on the Shanghai Stock Exchange*, and the *Self-Regulatory Guidelines No. 5 for Companies Listed on Shanghai Stock Exchange - Transactions and Related Transactions*, and the relevant provisions of the *Articles of Association*. Besides, it has clarified the decision-making authority and review procedures for related transactions, and strictly implemented the voting recusal system for related directors and shareholders during the review process of related transactions to ensure legal and compliant review and disclosure procedures for related transactions.

In 2024, CTGR continued to strengthen its management mechanism for related transactions and effectively identified related transactions. It strictly followed internal and external rules to review and disclose related transactions. Besides, its daily related transactions were reviewed and approved by the President Meeting, the Board of Directors, and the General Meeting of Shareholders, and disclosed in the form of announcements on the website of Shanghai Stock Exchange. In addition, it held training sessions on related transactions in an orderly manner, strengthened the promotion of regulatory laws and policies and further enhanced the its compliance awareness of related transactions. It had no external inquiries during the reporting period.



Investor Relations Management and Shareholders' Rights and Interests

Investor relation management

Management strategy

CTGR is committed to establishing and maintaining good relationships between itself and investors, and improving its transparency and credibility. It continuously optimizes investor relations management from a strategic perspective, formulates annual work plans, and creates a multi-level communication matrix to continuously enhance market recognition. By means of information disclosure, performance briefing, investor communication, securities trader strategy meetings, daily communication, etc., it introduces its production and operation status and achievements, effectively conveys its investment value to the capital market, and strives to introduce more long-term, value-based, and rational investment.

The Company establishes a four-tiered investor relations management structure and implements decision-making, coordination, and execution responsibilities at each level.

Board of Directors	>>	The decision-making body for investor relations management, which is responsible for formulating relevant management systems.
Board Secretary	>>	The main head for coordinating investor relations management work in all respects.
Office of the Board of Directors (Securities Affairs Department)	>>	A functional department which is responsible for planning and organizing investor relations activities and managing daily affairs under the leadership of the Board Secretary.
Other departments	>>	Departments which collaborate and cooperate with others in terms of investor relations management within the scope of responsibilities.

Investor communication

The Company pays attention to establishing a smooth and efficient investor communication mechanism to foster understanding, build trust, and strengthen investor confidence in it. In 2024, the Company organized 9 investor exchange meetings with over 40 participating institutions. Besides, it participated in 3 events such as the capital market strategy conference and forum to continuously enhance the attention to and influence of the capital market. Synchronously, it managed daily investor relations. It promptly answered 170 questions from the Shanghai Stock Exchange's e-Interactive Platform, replied to 231 letters from the Board Secretary's mailbox, and answered more than 800 hotline calls.

The Company has summarized and released investor communication information on a regular basis, which effectively safeguarded the rights to be informed of small and medium-sized investors and protected the minority shareholders' rights and interests.

Shareholders' rights and interests

CTGR holds the General Meeting of Shareholders in strict accordance with relevant laws such as the *Company Law of the People's Republic of China*, the *Securities Law of the People's Republic of China*, as well as administrative regulations and the *Articles of Association*. The voting at the meetings strictly follows the recusation and authorization system, and the procedures for convening and holding the General Meeting of Shareholders are legal and compliant.

CTGR provides convenient conditions for minority shareholders to participate in the General Meeting of Shareholders. It also discloses the notices and materials of the General Meeting of Shareholders on the website of Shanghai Stock Exchange. With a combination of on-site voting and online voting, it actively serves shareholders who attend the General Meeting of Shareholders in person. To be specific, it understands their demands, answers their questions, and safeguards their right to know and participate in decision-making with specific measures.



Appendix

List of Key Performance Indicators

Environmental protection performance	Unit	2024	2023	2022
Fresh water consumption	10,000 metric tons	29.00	16.08	-
Circulating water consumption	10,000 metric tons	2.14	-	-
Proportion of circulating water consumption	%	6.86	-	-
Water consumption intensity	ton/CNY 10,000	0.10	0.06	0.04
Consumption of non-renewable materials	ton	/	/	/
Consumption of toxic and harmful materials	ton	/	/	/
Material consumption intensity	ton	/	/	/
Gasoline consumption	ton	1,122.37	1,089.64	-
Diesel oil consumption	ton	249.49	160.14	-
Natural gas consumption	10,000 m ³	1.09	66.71	-
Consumption of liquefied petroleum gas	ton	9.30	2.34	-
Non-fossil energy consumption	ton (calculated in standard coal equivalent)	0	0	-
Proportion of non-fossil energy consumption	%	/	/	/
Total energy consumption	ton (calculated in standard coal equivalent)	49,536	36,395	-
Energy consumption intensity	Tonnage of standard coal/CNY 10,000	0.0166	0.0138	-
Wastewater discharge	10,000 metric tons	14.17	31.77	-
Discharge of wastewater pollutants	L	0	0	-
Discharge concentration of wastewater pollutants	mg/L	/	/	/
Emission of exhaust pollutants	m ³	0	0	-
Emission concentration of exhaust pollutants	mg/m ³	/	/	/
Disposal volume of general industrial solid wastes	ton	13,537	2,154	-
Disposal volume of hazardous wastes	ton	90	129	-
Scope 1 emissions	Tonnage of carbon dioxide equivalent	33,575	14,415	-
Scope 2 emissions (based on geographical locations)	Tonnage of carbon dioxide equivalent	229,690	154,184	-
Scope 2 emissions (based on the market)	Tonnage of carbon dioxide equivalent	176,792	-	-
Carbon intensity of power generation	Tonnage of carbon dioxide/MWh	0.0037 (based on geographic locations) or 0.0029 (based on the market)	0.0031	-
Carbon intensity of revenue	Tonnage of carbon dioxide/CNY 10,000 revenue	0.0886 (based on geographic locations) or 0.0708 (based on the market)	0.0637	-
Reduced carbon dioxide emissions	10,000 metric tons	5,727	4,271	3,785

Economic performance	Unit	2024	2023	2022
Operating income	CNY 100,000,000	297	265	238
Total profits	CNY 100,000,000	86	90	90
Asset-liability ratio	%	70.96	69.40	66.45
Earnings per share	CNY	0.2135	0.2506	0.2482
Tax paid	CNY 100,000,000	29.31	25.01	19.75
R&D investment	CNY 100,000,000	7.63	7.27	4.69
Green electricity revenue	CNY 100,000,000	291	261	238
Total installed capacity of domestic power generation	10 MW	4,796	4,004	2,652
Social performance	Unit	2024	2023	2022
Total number of employees	person	6,584	6,154	5,723
Total number of ethnic minority employees	person	557	494	468
Number of female employees	person	1,387	1,276	1,150
Percentage of employees with social insurance	%	100	100	100
Percentage of labor contract coverage	%	100	100	100
Employee training coverage rate	%	100	100	100
Major safety accident	times	0	0	0
Public welfare donation	CNY 100,000,000	1.16	1.68	1.04
Governance performance	Unit	2024	2023	2022
Number of meetings of the Board of Directors	times	14	11	18
Number of meetings of the Supervisory Board	times	7	6	9
Number of independent directors	person	3	3	3

Note: 1. "/" indicates that the Company did not engage in activities related to this performance indicator.
2. According to the requirements of the *Accounting Standards for Business Enterprises*, in 2024, the Company made retrospective adjustments to the financial data of the same period last year. Please refer to the Company's Annual Report 2024 for details.

List of Internal Policies of CTGR

Policy name	Corresponding GRI disclosure item
Articles of Association	GRI 102: General Disclosures
Rules of Procedure for the General Meeting of Shareholders	GRI 102: General Disclosures
	GRI 103: Management Measures
Rules of Procedure for the Board of Directors	GRI 102: General Disclosures
	GRI 103: Management Measures
Rules of Procedure for the Strategy Committee of the Board of Directors	GRI 102: General Disclosures
	GRI 103: Management Measures
Rules of Procedure for the Compensation and Assessment Committee of the Board of Directors	GRI 102: General Disclosures
	GRI 103: Management Measures
Management Measures for Environmental, Social Responsibilities and Corporate Governance	GRI 102: General Disclosures
	GRI 103: Management Measures
Internal Reporting System of Important Information	GRI 102: General Disclosures
Information Disclosure Management System	GRI 102: General Disclosures
Related Transaction Management System	GRI 102: General Disclosures
Management Measures for Corporate Social Responsibility	GRI 203: Indirect Economic Impacts
Management Measures for Fulfilling Social Responsibility Projects	GRI 203: Indirect Economic Impacts
Tendering and Procurement Management Measures	GRI 204: Procurement Practices
Compliance Management System	GRI 205: Anti-corruption
	GRI 419: Socioeconomic Compliance
Management Measures for Disciplinary Inspection Commissioners Dispatched to Regional Areas	GRI 205: Anti-corruption
Financial Management System	GRI 207: Tax
Management Procedures of Value Added Tax Invoice	GRI 207: Tax

Policy name	Corresponding GRI disclosure item
Management Measures for Resource and Energy Conservation	GRI 302: Energy
Management Measures for Environmental Protection of Offshore Wind Power Projects (Trial)	GRI 303: Water and Effluents
	GRI 303: Water Resources and Effluents
	GRI 304: Biodiversity
Management System of Ecological Environment Protection	GRI 305: Emissions
	GRI 307: Environmental Compliance
Management Measures for Solid Wastes	GRI 306: Wastes
Labor Contract Management Measures	GRI 401: Employment
Management Measures for the Introduction of Social Talents	GRI 401: Employment
Management Measures for Employee Welfare Fees	GRI 401: Employment
Attendance Management Measures	GRI 401: Employment
Leave Management Measures	GRI 401: Employment
Management Measures for Occupational Hazards Prevention and Control	GRI 403: Occupational Health and Safety
Management Measures for Safe Power Generation	GRI 403: Occupational Health and Safety
Management Measures for Safety Education and Training	GRI 404: Training and Education
Management Measures for Employee Education and Training	GRI 404: Training and Education
Regulations on the Reporting and Investigation of Work Safety Accidents	GRI 416: Customer Health and Safety
Management Measures for Fire Safety	GRI 416: Customer Health and Safety

Indicator Index

Report contents		GRI Standards (2024)	Reference Index System on ESG Reports for Central State-owned Enterprises' Listed Companies	Guiding Topics
About This Report	Basis for Preparation	/	/	Article 1
	Reporting Scope	GRI 2-2	/	Article 4
	Reporting Period	GRI 2-3	/	Article 4
	Reliability	GRI 2-5	/	Article 6
	Term of Address	/	/	/
	Availability	GRI 2-3	/	/
Message from the Chairman		/	/	/
Company Basic Information	Profile	GRI 2-1	/	/
	Strategy and Culture	GRI 2-22	/	/
	Company Structure	GRI 2-9	/	/
	Business Profile	GRI 2-6	/	/
	Honors	/	/	/
	Response to the United Nations Sustainable Development Goals (SDGs)	/	/	/
Materiality Assessment on Topics	Double Materiality Analysis	GRI 3-1/GRI3-2	/	Articles 13, 14 and 16
	Due Diligence and Stakeholder Engagement	GRI 2-23/GRI 2-26/GRI 2-29	G1.1/G1.2/G1.3/G2.2/ G2.3/G5.1/ G5.2/G3.2/ G3.3	Articles 9, 52 and 53
ESG Governance Plan	Sustainable Development Governance Structure	GRI 2-9/GRI 2-12/GRI 2-13/ GRI 2-14/GRI 2-17	G1.1/G1.2	Article 12
	Reporting of Sustainability-related Information	GRI 2-16/GRI 2-17	G4.1	Article 12
	Supervision and Evaluation Mechanism	GRI 2-18	G4.2	Article 12
Special Topic	Renewable Energy+	GRI 203-1/GRI 302-4	E5.2/E5.4/S1.1/S4.2/ S4.4	Articles 29, 32, 34, 35, 38, 39 and 41
	Power Energy Supply Reliability	GRI 203-1	S4.4	Articles 12, 14, 38, 40 and 41
	Scientific and Technological Innovation	GRI 302-4	S1.4/S2.3/S4.4	Articles 42 and 43

Report contents		GRI Standards (2024)	Reference Index System on ESG Reports for Central State-owned Enterprises' Listed Companies	Guiding Topics
Environmental	Environmental Management	GRI 2-27/GRI 3-3	E5.1/E5.4/E5.6	Article 33
	Responding to Climate Change	GRI 3-3/GRI 201-2/GRI 305-1/ GRI 305-2/GRI 305- 3/GRI 305-4/ GRI 305-5	E3.1/E3.2/E3.4	Articles 21 to 28
	Pollutant Discharge and Waste Disposal	GRI 303-1/GRI 303-2/GRI 303-4/ GRI 306-1/GRI 306- 2/GRI 306-3/ GRI 306-5	E2.1/E2.3	Articles 30 and 31
	Biodiversity & Ecosystem Conservation	GRI 101-1/GRI 101-2/GRI 203-1/ GRI 304-1/GRI 304-2	E4.1	Article 32
	Resource Utilization and Circular Economy	GRI 302-1/GRI 302-3/GRI 303-3	E1.1/E1.3	Articles 35, 36 and 37
	Employees	GRI 2-7/GRI 2-19/GRI 401-1/ GRI 401-2/GRI 403-1/GRI 403-2/ GRI 403-4/ GRI 403-5/GRI 403-7/ GRI 404-1/ GRI 404-2/GRI 404- 3/ GRI 405-1	S1.1/S1.2/S1.3/S1.4/S1.5	Articles 49 and 50
Social	Rural Revitalization and Social Contributions	GRI 203-1	S4.3/S4.4	Articles 39 and 40
	Suppliers and Customers	GRI 416-2/GRI 418-1	S3.1/S3.2	Articles 45, 46, 47 and 48
	Corporate Governance	GRI 2-9/GRI 2-12/GRI 2-19/ GRI 2-20	G1.1/G1.2/G1.3/G2.1	Article 51
Governance	Business Conduct	GRI 2-24/GRI 205-2	G2.2/G2.3	Articles 55 and 56
	Investor Relations Management and Shareholders' Rights and Interests	GRI 2-29	G3.1/G3.2/G4.1	Article 53
Appendix		GRI 302-3	E1.1/E1.2/E1.3/E2.1/E2.2/E2.3/ E3.1/E3.2/S1.1/S1.3/S1.4/G1.2/ E.2.3/E.5.3/S1.1/S1.2/S1.3/S1.4/ S3.1/S4.1/S4.3/G1.1/G1.2/G3.2/ G4.1/G5.1	Articles 57 and 59

Explanation of Terms

SASAC	Full name	State-owned Assets Supervision and Administration Commission of the State Council
CSRC	Full name	China Securities Regulatory Commission
Company, the Company, we, CTGR	Full name	China Three Gorges Renewables (Group) Co., Ltd.
CTG	Full name	China Three Gorges Corporation

Reader Feedback Form

CTGR is very concerned about your opinions on our ESG governance work and ESG reports. Your opinions and suggestions are a driving force for us to continuously improve our reports. The completed form can be sent to the E-mail address (ctgr_ir@ctg.com.cn) after answering the following questions.

Is there any information in this Report that you are concerned about but do not find in the Report? If any, please write down what you are concerned about.

Which parts of the Report are you most interested in?

If you are interested, please leave your contact information.

Name:

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