



中国三峡
China Three Gorges Corporation



2024

Social Responsibility Report

Empowering a greener world

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The Panorama of Three Gorges Water Conservancy Complex

Message from Chairman



Liu Weiping
Board Chairman of China Three Gorges Corporation

Braving the Tide to Embark on a New Journey, Setting Sail Toward a New Chapter

The year 2024 marked the 75th anniversary of the founding of the People's Republic of China. It was also a crucial year for achieving the objectives and tasks laid down in the 14th Five-Year Plan and a year in which China Three Gorges Corporation (CTG) seized the momentum to press forward. By firmly embracing the mission and responsibilities of central enterprises in the new era and on the new journey, CTG united in collaboration, forged ahead with tenacity and resolve, and delivered tangible actions and outcomes that marked a new chapter of high-quality development in the new era.

Demonstrating responsibility in fulfilling the mission of central state-owned enterprises. CTG has always kept the nation's overarching priorities in mind, actively integrating its development into the broader vision of advancing Chinese modernization. It conscientiously practices the people-centered development philosophy. Safeguarding the safety and stability of the Yangtze River remains its prioritized mission, supported by meticulous operation and scientific scheduling of the cascade reservoir system. With the Yangtze River Economic Belt as its main arena, CTG makes every effort to ensure flood control, water supply, navigation, energy, and ecological security. Meanwhile, CTG has been actively participating in the "Three-North" Shelterbelt Program and the construction of the Three Gorges New Waterway, continuously strengthening its core functions and enhancing its core competitiveness.

Laying a solid foundation for development by advancing comprehensive green transformation. CTG focused on its core businesses: water conservancy and hydropower, clean energy, and ecological protection and circular use of resources, in order

to strengthen the foundation for high-quality development. The transformation and upgrading of large-scale hydropower continued to accelerate. An industrial Internet platform was fully deployed at the cascade hydropower stations along the main stream of the Yangtze River, optimizing joint dispatching, with water-saving and power generation efficiency reaching record highs. The layout of renewable energy was further optimized. CTG advanced the full-scale construction of two 10-million-kilowatt level clean energy bases in Inner Mongolia and Xinjiang, located in desert, Gobi, and arid regions. The world's first "dual-tower single-turbine" solar thermal power plant and the largest string-type energy storage power station in China were fully connected to the grid. Offshore wind power maintained its leading position in the industry. The progress of Yangtze River ecological protection is increasingly evident. A pipeline pricing mechanism reform has been implemented in Yichang, Hubei Province, while the public-private collaboration in ecological conservation in Wuhu City, Anhui Province was selected as a national best practice for implementing major national initiatives and building up security capacity in key areas. CTG's capacity to coordinate carbon reduction, pollution control, green expansion, and high-quality growth has continued to strengthen.

Building scientific and technological strength to support a strong science and technology nation. CTG has deeply implemented the innovation-driven development initiative and fully played its role as the main force in scientific and technological innovation, firmly taking the lead in the "three vanguards". The top-level design for scientific and technological innovation has been systematically reshaped. The National

Engineering Research Center for Eco-Environment in the Yangtze River Economic Belt successfully passed the acceptance review for its construction phase with high quality. The national-level research platforms have achieved full coverage of the main business. An offshore wind power research project won the first prize of the National Science and Technology Progress Award. Digital and intelligent empowerment has been continuously deepened. The "Digital Twin Three Gorges" project was recognized as one of the top ten digital twin model projects by the Ministry of Water Resources. The artificial intelligence "Jiliang Action" has been advanced steadily. The big data platform now covers all operating power stations. Digital and intelligent technologies such as centralized monitoring, robotic maintenance, and drone inspections have been widely applied to comprehensively improve production safety.

Contributing CTG's strength to Belt and Road cooperation. As the world's largest hydropower developer and operator, CTG actively promotes the vision of building a community with a shared future for mankind, takes an active part in the high-quality Belt and Road cooperation, aligns closely with high-level international industrial capacity cooperation, and continues to deepen global exchanges and collaboration. CTG has invested in and built a series of landmark clean energy projects in 12 countries and regions around the world. Its overseas controllable installed capacity has exceeded 12 GW, all of which comes from clean energy, making a significant contribution to the joint effort to build a clean and beautiful world.

Enhancing public well-being through better public services. CTG has always remained true to its original aspiration of serving the

nation and benefiting the people, striving to fulfill its functional role in safeguarding and improving public well-being. It firmly shouldered the responsibility of ensuring a stable power supply, with annual power generation exceeding 450 TWh and the successful completion of all tasks to secure power supply during peak summer and winter seasons. CTG firmly fulfilled its social responsibility for providing assistance, continuously deepening efforts in targeted poverty alleviation, paired support, and follow-up support for resettled population in reservoir areas. It has received the highest rating of "Good" in the annual performance assessment of targeted assistance by central government departments for seven consecutive years. For the third consecutive year, CTG was selected for the "Pioneer 30 Index of Responsibility Management for Central SOEs" by the State-owned Assets Supervision and Administration Commission of the State Council. The annual ESG ratings of its listed subsidiaries, China Yangtze Power, China Three Gorges Renewables, and Hubei Energy, all improved from the previous year.

The year 2025 is the final year for implementing the 14th Five-Year Plan and the year of formulating the 15th Five-Year Plan. CTG will remain true to its original aspiration and founding mission, and take on its responsibilities with courage. With a strong sense of urgency, and a pioneering and pragmatic work ethic, CTG will accelerate its efforts to build a world-class enterprise, strive to write a new chapter of Chinese modernization, and make new and greater contributions to building China into a great modern socialist country in all respects and advancing the great rejuvenation of the Chinese nation on all fronts.

Interview with President



Li Fumin

Board Director and President of China Three Gorges Corporation

Q The year 2024 is the 75th anniversary of the founding of the People's Republic of China and a critical year for the implementation of the 14th Five-Year Plan. How did CTG advance high-quality development to a new level?

A In 2024, in the face of a complex and ever-changing external environment and various risks and challenges, CTG adhered to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and earnestly carried out the relevant requirements of the State-owned Assets Supervision and Administration Commission of the State Council. CTG undertook missions with resolve, strengthened value creation, and worked hard to push forward the building of a world-class enterprise. By the end of 2024, CTG's total installed capacity reached 158 GW, with annual power generation exceeding 450 TWh. CTG received an A rating in the central SOE performance assessment for the 17th consecutive year. Its production and operation maintained steady progress, with continuous improvement in both quality and efficiency.

Q Building a safe and stable Yangtze River is an essential requirement and a key support for promoting high-quality development of the Yangtze River Economic Belt. What progress did CTG make in safeguarding the Yangtze River in 2024?

A CTG fully implemented the holistic view of national security and took safeguarding the Yangtze River as its primary mission. Anchored in the concept of "broad time and space, integrated systems, strong commitment, and overall security", CTG ensured lean operation and scientific dispatching of the cascade reservoir group, continuously enhanced its security support capabilities, and reinforced the flood control shelter along the Yangtze River. In 2024, nine reservoirs under CTG's management and operation were incorporated into the joint dispatching system for water projects across the Yangtze River Basin, with their flood control storage capacity accounting for 55.2 percent of the entire basin. In response to the severe conditions of the middle and lower reaches of the Yangtze River exceeding warning levels during the flood season, the cascade reservoirs on the lower reaches of the Jinsha River and the Three Gorges Reservoir successfully managed the first and second numbered floods, intercepting a total of 13.45 billion cubic meters of floodwaters. Working in coordination with other reservoirs in the middle and upper reaches of the Yangtze River, the efforts helped reduce flooding across 209,333 hectares of farmland, averted the evacuation of 2.21 million people, and mitigated disaster-related losses by 64.3 billion yuan. The benefits in flood control and disaster reduction were highly significant.

Q Under the guidance of the new energy security initiative, what new progress and outcomes did CTG achieve in serving the initiative of building a strong energy nation in 2024?

A CTG actively implemented the new energy security initiative aimed at revolutionizing consumption, supply, technology, and institutions, while strengthening all-round international cooperation. It remained committed to the main track of clean energy, and established a development pattern with hydropower as the foundation, coordinated growth of wind and solar power, and complementary integration of diverse energy sources. In 2024, CTG achieved record-high power generation from hydropower, wind, solar, and thermal sources. CTG's large hydropower business expanded steadily, achieving full-capacity operation of all 110 generating units for the first time. Peak output surpassed 70 GW, and water-saving operations contributed an additional 12.87 TWh of electricity over the year. CTG further accelerated the development of its renewable energy business, with total installed capacity surpassing 61 GW, including more than 7 GW from offshore wind power. Construction officially commenced on the fourth channel of the Xinjiang Power Transmission to Other Regions project. Phase II of the Kubuqi mega base in Inner Mongolia and Phase VI of the Qingzhou project in Guangdong Province were fully connected to the grid. The third batch of mega base projects progressed in an orderly manner. The energy storage business progressed in an orderly manner. The Zhejiang Tiantai Pumped Storage Power Station, the largest in China in terms of single-unit capacity, entered the electromechanical installation phase. Several new energy storage projects, including the country's largest string-type energy storage station, were fully connected to the grid.

Q Chinese modernization is the modernization of harmony between humanity and nature. In 2024, what achievements has CTG made in participating in the Yangtze River conservation with a well-coordinated approach and promoting harmonious coexistence between humanity and nature?

A CTG has coordinated efforts to advance both high-quality development and high-level ecological conservation. The Yangtze River conservation program has achieved full coverage across 11 provinces and cities along the river, with a total investment exceeding RMB 120 billion, a pipeline network extending over 24,000 kilometers, and a daily sewage treatment capacity of 4.49 million tonnes. The application of innovative models such as the "Urban Smart Water Manager" has been further expanded. Active efforts were made to tackle pipeline network challenges, effectively promoting the long-term stability and continuous improvement of water quality in key river and lake basins. In biodiversity conservation, efforts to protect rare and endemic fish and plants in the Yangtze River have been strengthened. Approximately 4.2 million rare and endemic fish were released into the river. For the first time, artificial breeding of *Pinus squamata*, a national first-class wild protected plant, was successfully achieved. A total of 80 species of unique and rare resource plants were protected, with over 2,030 species and more than 31,000 individual plants under conservation. Nearly 300,000 rare and endemic plants have been cultivated. Significant progress has been made in biodiversity conservation.

Q Developing new quality productive forces is both an inherent requirement and a key focus for advancing high-quality development. In 2024, how did CTG stimulate its internal driving forces through reform and innovation, and accelerate the cultivation of new quality productive forces?

A CTG adhered to the dual drivers of scientific and technological innovation and institutional innovation, cultivating fertile ground for the development of new quality productive forces and embarking on a path of high-quality development empowered by SOE reform, led by scientific and technological innovation, and supported by strategic and emerging industries. CTG focused on driving critical reforms, completing over 70 percent of the core tasks under its reform deepening and upgrading initiative. The benchmarking-for-excellence campaign on value creation was carried out in depth, the foundation for management continued to be strengthened, and internal vitality for development steadily increased. CTG continued to pursue innovation-driven development by establishing a "Four Ones" scientific and technological innovation framework, which consists of one innovation plan, one guiding opinion, one project guideline, one regulation manual. The official acceptance of the National Engineering Research Center of Eco-Environment in Yangtze River Economic Belt was completely approved. The project titled "Complete Set of Technologies and Equipment for the Safe and Efficient Development and Industrialization of Offshore Wind Power" received the First Prize of the National Science and Technology Progress Award. Four technological achievements were included in the fourth batch of major first-of-their-kind technical equipment and project lists released by the National Energy Administration.

Q In 2024, what key measures did CTG take to support rural revitalization?

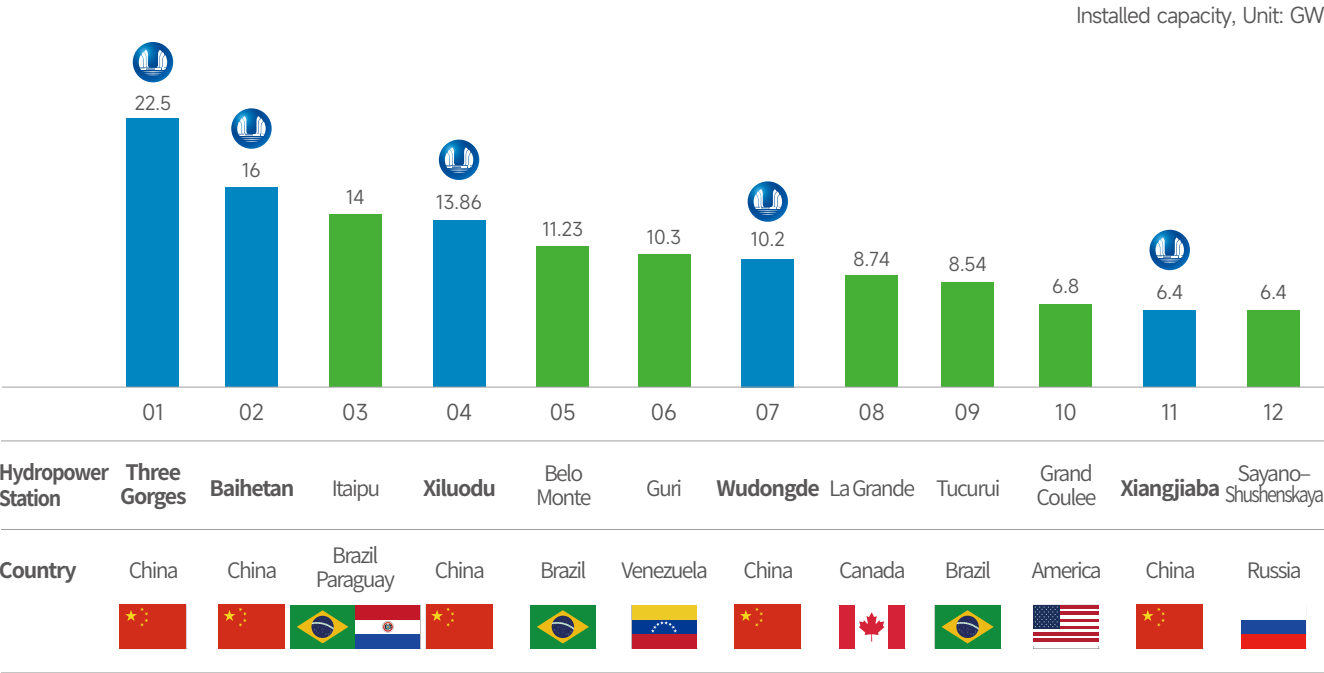
A In 2024, CTG continued to deepen its efforts in targeted assistance, paired support, as well as follow-up support for resettled population in reservoir areas, implementing 135 related projects throughout the year and advancing the "Five Major Revitalizations" in a coordinated manner. It adhered to a coordinated approach that integrates technological empowerment with industrial development, focusing on strengthening, extending, and supplementing industrial chains, steadily expanding county-level leading industries, and shaping a "one county, one brand" assistance pattern. It leveraged its core business advantages in tandem with targeted measures, actively advancing the construction of wind, solar, and pumped-storage power stations, along with water environment management, to promote the integrated development of rural energy transformation and rural revitalization. It also combined talent assistance with employment support by strengthening industry-education integration, supporting the construction of digital industrial parks and vocational education centers, building new spaces for entrepreneurship and talent service hubs, and fostering talent cultivation and job creation. Moreover, it coordinated offline exhibitions, online sales, and direct product marketing, actively participating in or hosting central SOE consumption assistance campaigns such as the "Spring Action" and "Synergy Action", and carefully developing the "CTG Buy & Help Station" to help farmers increase their income through multiple channels.

About CTG

China Three Gorges Corporation (CTG), established on September 27, 1993 to undertake the construction of the Three Gorges Project, is a central state-owned enterprise specializing in hydropower, clean energy, ecological and environmental conservation, and resource recycling. It is among the first batch of central SOEs designated by the State-Owned Assets Supervision and Administration Commission of the State Council (SASAC) to build world-class demonstration enterprises. After more than 30 years of continuous high-quality development, CTG now operates across all 31 provinces, autonomous regions, and municipalities in China, as well as in nearly 12 countries and regions worldwide. It has grown into the world's largest hydropower developer and operator and a leading clean energy and ecological and environmental conservation group in China.

The world's largest hydropower developer and operator
A leading clean energy and ecological conservation group in China

As of the end of 2024			
1.48 trillion yuan Total assets	158 GW Consolidated installed capacity	457.4 TWh Annual total power generation	A-class enterprise Rating in the SASAC's annual performance appraisal of SOEs for 17 consecutive years
162.5 billion yuan Operating revenue	96 % Proportion of installed capacity of clean energy	94 % Proportion of electricity generated by clean energy	0.446 tonnes of standard coal/thousand yuan Comprehensive energy consumption per thousand yuan of output value (comparable price)



Among the world's 12 largest hydropower stations, five were built, operated, and managed by China Three Gorges Corporation (CTG).



The Three Gorges Project Spirit is centered on the commitment to developing the Three Gorges Project for the Chinese nation

Our Vision

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

Our Mission

Harmonizing development with conservation for greater public well-being

Our Values

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

Our Motto

Empowering a greener world

Striving to Be a World-Class Enterprise

To build a world-class clean energy group and a leading ecological conservation enterprise in China

Performing "Six Roles"

A safeguard in advancing the development of the Yangtze River Economic Belt

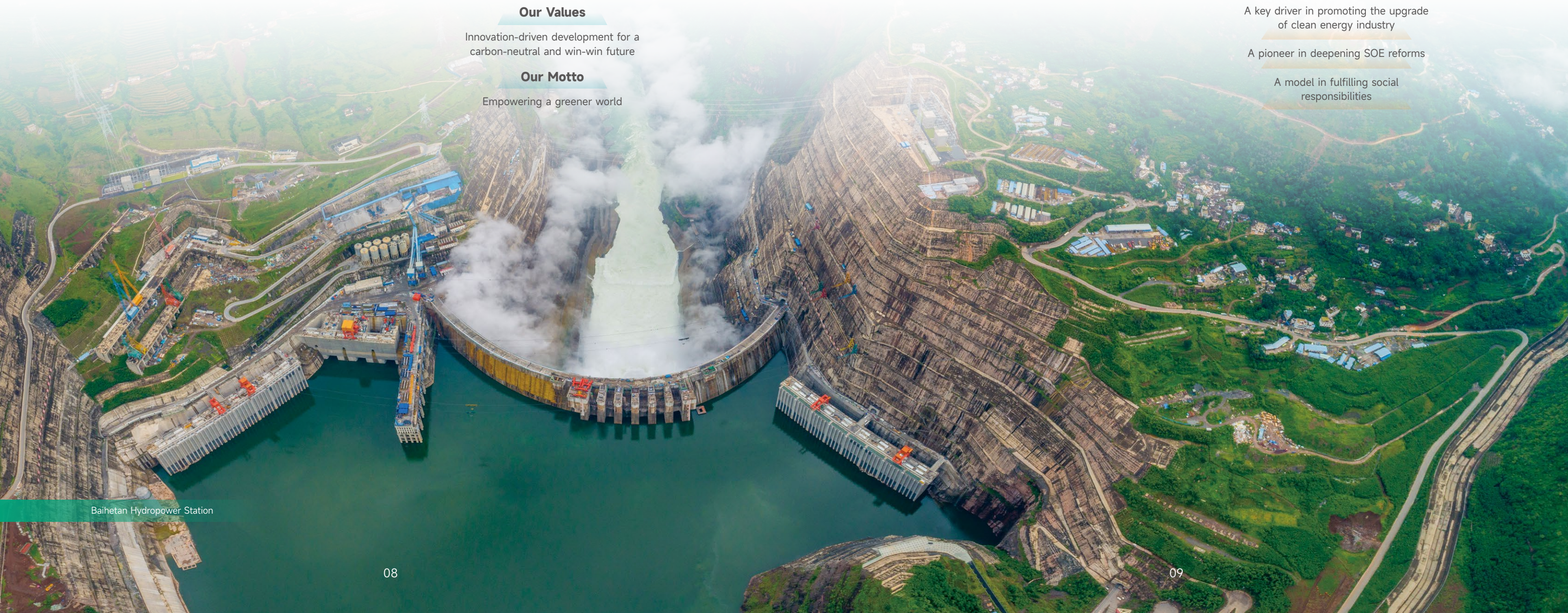
A pivotal and leading player in well-coordinated environmental conservation of the Yangtze River

A leader in driving China's hydropower industry to "GO GLOBAL"

A key driver in promoting the upgrade of clean energy industry

A pioneer in deepening SOE reforms

A model in fulfilling social responsibilities



Board of Directors



Liu Weiping, Board Chairman



Li Fumin, Board Director



Zeng Yi, Board Director



Ren Shuhui, External Director



Qu Dazhuang, External Director



Liu Deheng, External Director



Zhou Mingchun, External Director



Xu Kaizhuo, External Director



Xie Bo, Employee Director

Members of the Board of Directors

Note: Board members as of the report disclosure date.

Leadership Team



Liu Weiping, Board Chairman



Li Fumin, Board Director and President



Zeng Yi, Board Director



Cai Tingying, Head of Discipline Inspection and Supervision Group of CCDI and NSC in CTG



Lyu Tingyan, Executive Vice President



Wang Xinwei, Executive Vice President



Wu Shengliang, Executive Vice President



Xie Song, Chief Financial Officer

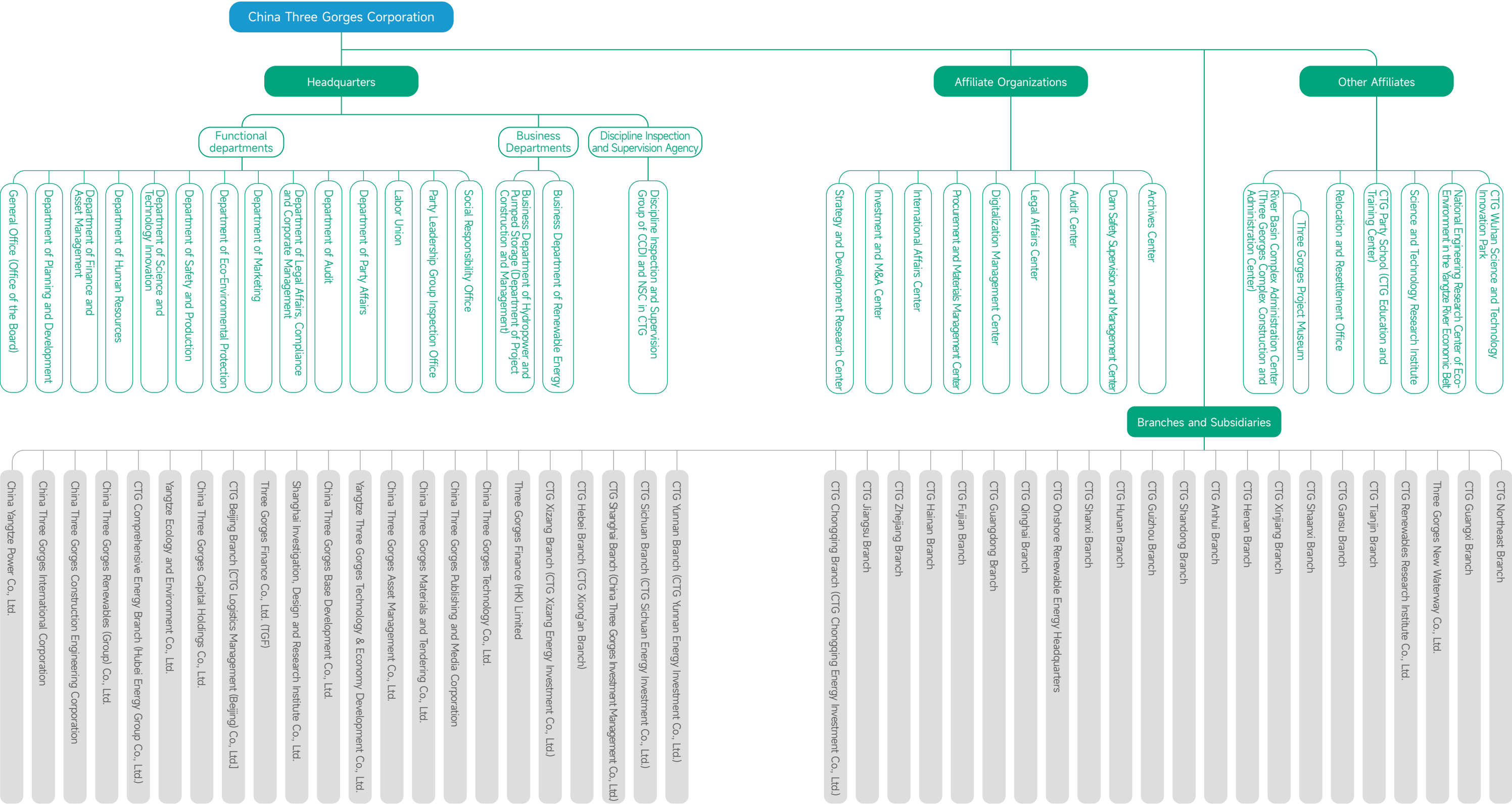


Wang Dianchang, Executive Vice President

Members of Leadership Team

Note: Leadership team members as of the report disclosure date.

Organization



CSR in Focus

Enhancing Safety Support through Lean Operation of National Pillar Projects

CTG remains committed to coordinating high-quality development with high-level security, identifying the protection of the Yangtze River's stability as its primary mission. CTG meticulously operates and manages the cascade of reservoirs centered around the Three Gorges Project, fully leveraging their integrated benefits. At a higher level, across broader areas, and on a larger scale, this effort provides robust support for ensuring flood control, water supply, navigation, energy, and ecological security along the Yangtze River, while reinforcing its foundational role in driving the high-quality development of the Yangtze River Economic Belt.



Flood Control

Following the principle of "large time-space, large systems, large responsibilities, and large-scale safety", CTG has carried out optimized joint dispatching of the cascade reservoir group centered on the Three Gorges Project. This has significantly enhanced flood control capacity across the Yangtze River Basin and safeguarded the lives and property of the public.

For the year of 2024

- Nine reservoirs of CTG were incorporated into the joint scheduling system of water projects in the Yangtze River Basin. These reservoirs provided a combined flood control capacity of **38.964 billion cubic meters**, accounting for **55.2%** of the basin's total, strongly supporting coordinated flood control efforts during the flood season. The **nine** reservoirs include Wudongde, Baihetan, Xiluodu, and Xiangjiaba on the lower reaches of the Jinsha River, the Three Gorges Reservoir on the main stream of the Yangtze River, Shuibuya and Geheyan on the Qingjiang tributary, Jiangpinghe on the Dongting Lake system, and Sanliping on the Han River system.
- In response to the first and second numbered floods in the Yangtze River Basin, CTG's cascade of reservoirs on the lower reaches of the Jinsha River and the Three Gorges Reservoir cumulatively retained **13.45 billion cubic meters** of floodwater. In collaboration with reservoirs in the middle and upper Yangtze, the Group helped reduce flooding across 209,333 hectares of farmland, prevented the evacuation of approximately **2.21 million people**, and reduced disaster losses by **RMB 64.3 billion**, demonstrating significant flood control and disaster mitigation benefits.
- CTG also strengthened the development of a three-tier defense system for rainfall and hydrological monitoring and forecasting, and ensured the implementation of the "four preemptive" measures (forecasting, early warning, drills, and contingency planning). CTG continued to advance the Digital Twin Three Gorges initiative and further enhanced its capabilities in forecasting, joint scheduling, intelligent flood control, and emergency response, providing strong support for flood control decision-making.

As of the end of 2024

- The Three Gorges Project has cumulatively intercepted **21 numbered floods** with peak flows exceeding 50,000 cubic meters per second, **3** flood peaks above 70,000 cubic meters per second. The total volume of floodwater intercepted exceeded **221 billion cubic meters**, equivalent to the volume of approximately **15,800 West Lakes** (based on a volume of 14 million cubic meters per West Lake).



Flood Control of the Three Gorges Project Ensured a Safe Flood Season

Water Supply

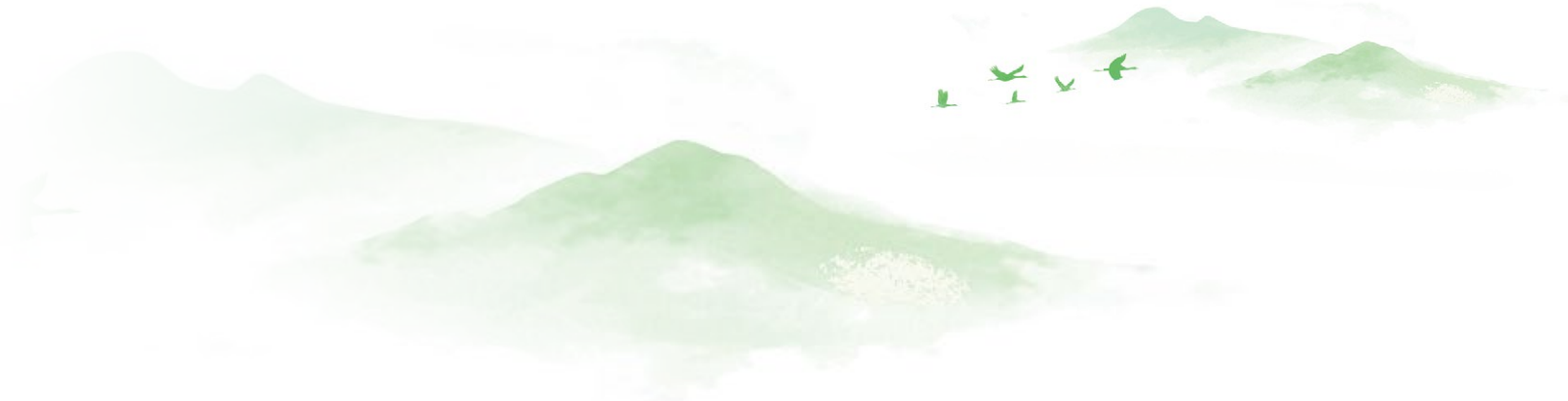
CTG fully utilizes the water resource optimization and allocation capabilities of the cascade reservoir group centered on the Three Gorges Project. During the dry season, it rigorously conducts water replenishment scheduling to firmly guarantee the production and domestic water needs along the river.

For the year of 2024

- The cumulative water replenishment by the six cascade reservoirs on the main stream of the Yangtze River reached a record high of **37.074 billion cubic meters**, which is equivalent to the annual water consumption of approximately **88 million people**. This fully demonstrates their role as a freshwater resource reservoir.

As of the end of 2024

- The cascade reservoirs on the lower reaches of the Jinsha River and the Three Gorges Reservoir together formed a strategic freshwater resource reservoir with a total capacity of **80.5 billion cubic meters**.
- Water quality in the Three Gorges Reservoir area remained at a high standard, with most monitored sections classified as **Class II**.
- The Three Gorges Project has cumulatively replenished water downstream for **2,686 days**, with a total volume of over **360 billion cubic meters**, which corresponds to the annual water consumption of about **855 million people**.





Navigation

CTG continuously enhances the operation and management of navigation structures such as the Three Gorges double-way and five-step ship lock and the Three Gorges ship lift, better ensuring navigation safety on the Yangtze River and striving to maximize the "Golden Waterway's" benefits.

For the year of 2024

- The Three Gorges ship locks operated safely for **10,169 lockages**, facilitating the passage of **37,936 vessels** and handling a cargo throughput of **153 million tonnes**.
- The Three Gorges Ship Lift operated safely for **4,734** lift operations throughout the year, serving **4,775 vessels**, with a cargo throughput of **3,789,800 tonnes** and **566,400 passenger trips**.

As of the end of 2024

- The Three Gorges ship locks has maintained safe, stable, and efficient operations for over **21 years**, with a cumulative total of **209,900 lockages**. The annual navigation rate remained about **10%** higher than the preliminary design target, enabling the passage of approximately **1,056,100 vessels** and a total cargo volume exceeding **2.162 billion tonnes**.
- The Three Gorges ship lift has been operated safely, stably, and efficiently for over **8 years**, with a cumulative total of **29,700 loaded** lift operations, serving **30,000 vessels** and **1,562,200** passengers, and achieving a total cargo throughput of **18.6473 million tonnes**.
- The Xiangjiaba ship lift maintains 24-hour full-time availability, ensuring the safe passage of over **20,000 vessels** with an aggregate cargo volume close to **9 million tonnes**.



Two-Way Five-Step Ship Lock of the Three Gorges Project



Energy Supply

CTG remains committed to developing clean energy and ensuring work safety. In 2024, CTG achieved record-high annual power generation and maximum output, fully leveraging the peak-shaving and frequency regulation capabilities of conventional hydropower and thermal power to contribute to China's energy security, stable supply, and green and low-carbon transition.

For the year of 2024

- The cumulative annual power generation reached **457.4 TWh**, setting a new record for the **seventh** consecutive year, with maximum generating capacity up by nearly **14 GW year-on-year**. Hydropower, thermal power, and renewables all achieved new highs in power generation.
- For the first time, all **110 units** of the six cascade hydropower stations along the main stream of the Yangtze River operated at full capacity, generating **295.904 TWh**, a record high, sufficient to meet the annual electricity needs of approximately **280 million people**. (Note: In 2024, the per capita residential electricity consumption in urban and rural areas in China was approximately 1,061 kWh.)
- CTG played an important role in ensuring reliable energy and power supply for multiple major events and critical periods, including the National Two Sessions, the China International Import Expo, winter and spring heating supply, summer peak demand, and the 75th anniversary of the founding of the People's Republic of China.



As of the end of 2024

- The six cascade hydropower stations along the main stream of the Yangtze River had a total installed capacity of **71.695 GW**, with an annual generating capacity of **300 TWh**, equivalent to saving approximately **92 million tonnes** of standard coal and reducing carbon dioxide emissions by about **240 million tonnes each year**.
- One drop of water generates electricity six times. The cumulative power generation to date of the six cascade hydropower stations along the main stream of the Yangtze River has exceeded **3,700 TWh**.



Ecological Conservation

CTG coordinates hydropower development and operations with ecological conservation, bringing together technology, talent, and capital to advance the conservation of the Yangtze River and ensure clear waters in this river flowing eastward.

For the year of 2024

- CTG conducted **11** ecological operation trials in three categories and **two** desilting operations at reservoir tail sections. During these periods, the total spawning scale of fish species with drifting eggs in the Yidu and Shashi sections of Hubei Province reached approximately **68.7 billion** and **60.9 billion eggs**, respectively, with the four major Chinese carps accounting for about **34.2 billion** and **22.3 billion eggs**, both setting new records.
- CTG released approximately **4.2 million** individual rare and endemic fish of the Yangtze River, including Chinese sturgeon, Dabry's sturgeon, and largemouth bronze gudgeon.
- CTG protected **80 species** of rare and endemic resource plants.

As of the end of 2024

- The Yangtze River conservation business layout covered all **11** provinces and cities along the Yangtze River Economic Belt.
- The sewage treatment capacity reached **4.49 million tonnes per day**, with a sewer pipeline network length exceeding **24,000 kilometers**, effectively eliminating **26 black** and odorous water bodies and addressing **16** major ecological and environmental problems in pilot cities, ensuring long-term stable and improved water quality in key river and lake basins.
- Ecological regulation experiments, including water-taking at different levels and baseload generation, have been carried out for **14** consecutive years, with natural reproduction of species such as *Myxocyprinus asiaticus* and *Coreius heterodon* observed.
- CTG released over **27.2 million** rare and endemic fish of the Yangtze River, including more than **6.5 million** Chinese sturgeon, and achieved the industry's first large-scale release of *Gobiobotia nudicorpa*.
- CTG focused on the conservation of rare and endemic fish nature reserves in the upper reaches of the Yangtze River while implementing ecological restoration projects for the Heishui River and the tail section of the Wudongde Reservoir, effectively protecting the "three spawning grounds and one migration corridor". The number of fish species in the Heishui River increased from **47** to **66**, adding **six** species endemic to the upper reaches of the Yangtze River, with available habitat areas in flow-regulating river sections expanding by over **200%**.
- CTG protected more than **2,030** species and over **31,000** individual rare and endemic resource plants. Nearly **300,000 plants**, including *Adiantum reniforme* var. *sinense*, *Myricaria laxiflora*, *Taxus chinensis*, and *Plantago fengduensis*, have been artificially bred. CTG has actively promoted the reintroduction of rare plants into the wild, with over **57,000** self-bred plants successfully reestablished along both banks of the Yangtze River.



GOVERNANCE

Strengthening Internal Momentum

Flood Discharge Through the Three Gorges Dam



Improving Corporate Governance

CTG accelerates the improvement of the modern enterprise system with Chinese characteristics. CTG has revised corporate governance regulations and clarifies the division of decision-making and responsibilities among the Leadership Group, the Board of Directors, and the Executive Management in decision-making on major business matters, promoting a corporate governance mechanism characterized by statutory authority, transparency, coordinated operation, and effective checks and balances. CTG improves the coordinated operation mechanism among the four key meetings, namely the Leadership Group meeting, the Board of Directors meeting, the Chairman's special meeting, and the President executive meeting. It strengthens communication between the Leadership Group and the Board of Directors prior to major decision-making, enhances the Board's authorization management, and promotes the establishment of a scientific, rational, and efficient Board of Directors.

- CTG continuously consolidates the management foundation to improve governance quality and efficiency.
 - CTG adheres to both "immediate rectification" and "long-term mechanism building", taking the rectification of issues identified by SASAC's inspection and supervision as an opportunity to improve the long-term internal control mechanisms in key areas and critical links, continuously enhancing its capability to prevent and mitigate major risks and advance corporate governance.
 - CTG formulates and issues lists of control matters by the headquarters and subsidiary authorization matters,
- continuously improving the effectiveness of headquarters governance. It builds an integrated system combining general, guiding, and self-management regulations to enhance both authority and execution.

 - CTG deepens the effectiveness evaluation of compliance and improves the legal and compliance review mechanism for major decisions.
 - CTG strengthens ESG capacity building. The credit ratings of the three listed companies where CTG holds controlling interests have been overall upgraded.

Smart Board Management System Empowers Corporate Governance

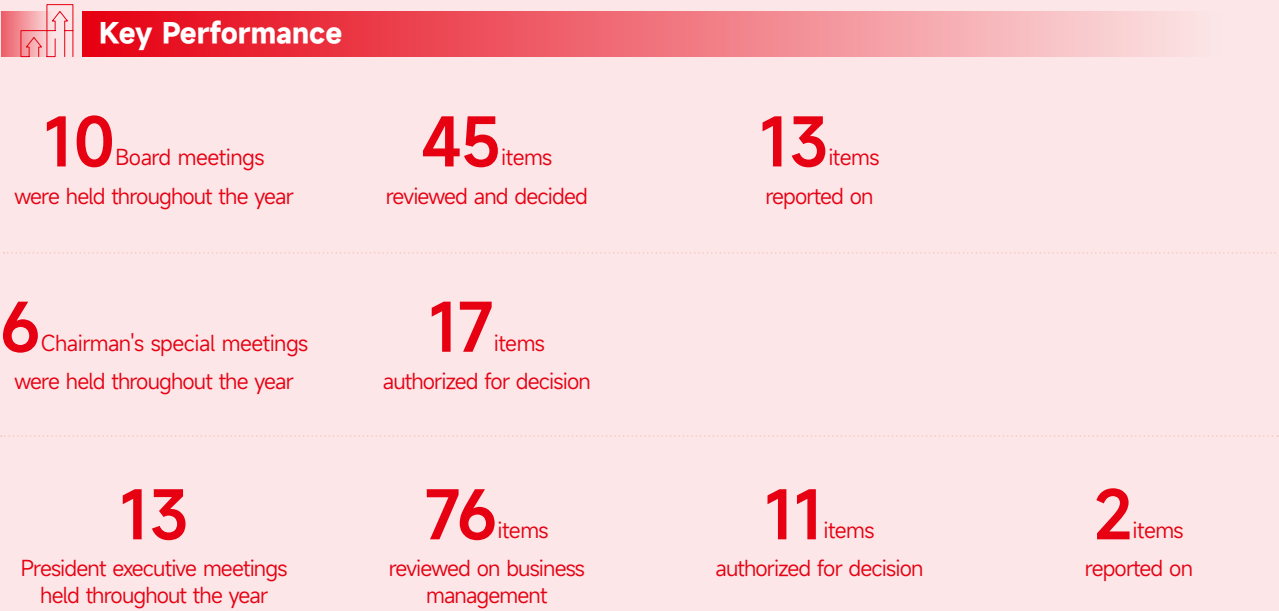
CTG comprehensively reviewed its experience in board development and spent two years developing the Intelligent Board Operation Management and Evaluation System. The system features nine modules that cover the entire business chain and all scenarios related to board operations. By leveraging customized modeling algorithms, big data analytics, knowledge graphs, and other advanced technologies, it achieves hierarchical management, business digitization, process standardization, intelligent operations, centralized control, and smart evaluation, effectively enhancing overall governance efficiency. In 2024, the system received the highest honor in SASAC's Intelligent Supervision Business Model Innovation program — the Excellence in Application Award. This recognition highlights SASAC's strong endorsement of CTG's efforts in building a board management system and implementing digital solutions, setting a benchmark for central enterprises in optimizing board development and corporate governance.



Scan the QR code to learn more

Strengthening Compliance Management

- **Improve the compliance system**
Construct a new institutional system that integrates the "two-level, three-tier" framework, achieving seamless connection and comprehensive implementation of general, guiding, and self-management regulations. Improve the Compliance Management Measures and the Measures for Legal and Compliance Review of Major Decisions, continuously advancing the standardization of compliance management. Continuously enhance the legal and compliance review mechanism for major decisions, and establish a consultation mechanism to address legal compliance issues in major projects. Build a legal and compliance management system to improve the informatization and digital intelligence of legal compliance management. Conduct targeted inspections on foreign-related legal compliance risks, improve the monitoring mechanism for such risks, and continuously enhance overseas compliance management capabilities.
- **Optimize internal control system**
Research and develop internal control evaluation guidelines and policy compilations to enhance the standardization of internal control supervision and evaluation. Following the principle of "four focuses and one strengthening", conduct in-depth internal control supervision and evaluation, with a particular emphasis on penetrating supervision and inspection to third-tier and lower-level subsidiaries based on comprehensive evaluations. Establish a "one-entity-one-form" feedback mechanism to effectively advance problem rectification and implementation of management recommendations, continuously improve the effectiveness of CTG's internal control system, and fully leverage the role of "promoting construction and governance through evaluation".
- **Strengthen risk management**
Actively construct a major operational risk management system that supports CTG's strategic goals. Improve the risk management mechanism including initial assessment, daily tracking, quarterly reporting, and annual review. Strengthen the tracking, monitoring, analysis, and assessment of major risks. Highlight risk prevention and control in key areas. Strengthen penetrating supervision. Promote early identification, early detection, early warning, and early disposal of major operational risks, and firmly uphold the bottom line of preventing systemic and disruptive risks.



Strengthen audit supervision

Fully leverage the professional support role of the Board's Audit and Risk Committee. Strengthen leadership of audit work and enhance its pertinence. Strengthen the supervisory role of special audits on key projects. Effectively fulfill supervisory responsibilities. Conduct thorough post-investment evaluations to achieve full project evaluation coverage. Focus on key areas and weak links, and continuously improve investment management capabilities.

Build a central enterprise by the rule-of-law

Conduct rule-of-law advancement assessments and compliance effectiveness evaluations. Identify shortcomings in legal and compliance management across CTG. Research and formulate targeted, comprehensive improvement measures. Promote the overall enhancement of legal and compliance work across CTG. Strictly comply with laws, regulations, and business ethics. Focus on key compliance areas such as anti-monopoly and labor employment. Organize the compilation of special compliance guidelines to effectively improve compliance throughout the entire business management process.



"Five-in-One" Compliance Management Model

Key Performance

Revised **over 100** regulations throughout the year

Completed internal control supervision and evaluation of **23** secondary subsidiaries throughout the year

Published the Internal Control Supervision and Evaluation Work Guidelines and supporting policy document compilation

Published CTG Control Matters List (2024 Edition) and Subsidiary Authorization Matters List (2024 Edition)

Released **11** issues of the Legal Policy Summary Compilation

China Yangtze Power Co., Ltd. and its subsidiaries China Yangtze International (Hong Kong) Co., Ltd. and Three Gorges Electric Energy Co., Ltd. obtained **dual certification for domestic and international compliance systems**

CTG Europe, CTG South Asia Investment Limited, and CTG Brasil obtained **dual certification for international compliance and anti-bribery systems**

Consolidating Safety Foundations

Strengthen classified supervision of work safety, refine requirements for the appointment of safety directors and the allocation of safety management personnel, and promote the effective functioning of the safety director system. Establish a "contact point" mechanism for work safety to promptly address practical issues at the grassroots level. Establish a "monthly scheduling and quarterly reporting" mechanism for the three-year action plan on fundamental safety improvement, as well as a "clarification" mechanism for identifying and addressing accident hazards. Compile the Emergency Material Allocation Standards (Trial) to further enhance the emergency management system.

Advance the three-year action plan on fundamental safety improvement with high quality, and conduct regular safety supervision and inspections, which have been fully recognized by the National Energy Administration. Compile a list of 205 key safety risk control measures and establish a routine supervision mechanism. Develop the Safety Risk Assessment Standards for Critical Energy Facilities, forming a standardized and replicable safety risk assessment system. Revise the criteria for identifying major accident hazards, upgrade the quality and safety supervision and inspection platform, and intensify the "anti-Three Violations" campaign in work safety. Continue to strengthen safety risk management in key areas such as new businesses and business models, Yangtze River conservation, critical energy facilities, and overseas operations.

Organize work safety and emergency management training courses, carry out targeted key emergency drills, host the "Quality Management Lectures", conduct mandatory work safety knowledge and skills tests, and carry out safety awareness and training activities to further strengthen employees' safety awareness.



Strictly implement the "Three Controls and Three Musts" requirements, and formulate or revise six regulatory documents, including the Headquarters Work Safety Responsibility System for All Employees, the Work Safety Reward and Punishment Management Measures, and the Measures for Work Safety Supervision of Outsourced Business. Improve the headquarters work safety responsibility system for all employees to achieve full coverage of target responsibilities across 72 departments and companies. Strengthen classified supervision of work safety, improve the work safety management evaluation mechanism, enhance the capacity of project leaders to fulfill their safety responsibilities, and promptly resolve practical work safety issues.

Carry out special actions to enhance dam safety, including dam safety registration, construction of online monitoring systems, and emergency capability assessments for dam operation safety, achieving online safety monitoring for 42 dams. Conduct special dam safety inspections both domestically and internationally to ensure the safe and stable operation of dams. Strictly implement the "inspect before lock passage" requirement to effectively ensure the navigation safety of the Three Gorges ship lock.

Honors Awards

76 QC groups and 59 quality innovation achievements won industry awards.

The Wind Shadow QC Group of China Three Gorges Renewables won the **Gold Award** at the 49th International Convention on Quality Control Circles in 2024.

Baihetan, Changlongshan, Jiangpinghe, Xiakoutang and other hydropower stations obtained **Class-A Dam Safety Registration** for the first time.

A wide-angle photograph of the Dafeng Offshore Wind Farm in Jiangsu Province, China. The image captures a vast expanse of the ocean under a dramatic sunset sky. The sun is low on the horizon, casting a warm, golden glow across the clouds and reflecting on the water's surface. Numerous white wind turbines are visible, stretching across the horizon line. The water in the foreground shows gentle ripples and a small wave in the bottom left corner. The overall mood is serene and inspiring, symbolizing clean energy and innovation.

REFORM AND INNOVATION

Inspiring Creative Vitality

Comprehensively Deepening Reforms

Advancing the Action Plan for Reform Enhancement

Accurately grasp the new plans and requirements for the reform deepening and enhancement action of state-owned enterprises. Scientifically formulate and dynamically optimize the implementation plan and work ledger for the action, establishing a timetable and roadmap for key reform tasks. Closely follow the reform ledger to ensure the implementation of each item, achieving an overall reform task completion rate exceeding 70%. Continuously overcome institutional and mechanism barriers that restrict high-quality development through reform, enhancing core functions and strengthening core competitiveness.

Establish a closed-loop mechanism for reform implementation

- **Formulate plans:** Formulate and issue the CTG's Reform Deepening and Enhancement Action Implementation Plan and work ledger covering 10 aspects, 116 reform tasks, and 252 specific measures.
- **Promote implementation:** Continuously improve the "real-time tracking, quarterly review, and annual evaluation" mechanism, regularly monitor and review reform task progress, ensure reform measures advance steadily, and reform outcomes are progressively realized.
- **Extend to grassroots:** Carefully select 10 third-tier and below subsidiaries as grassroots contact points for the reform deepening and enhancement action. Through policy promotion, exchanges and discussions, mutual learning and benchmarking, coordinate and resolve grassroots reform issues.
- **Assess and evaluate:** Improve the reform assessment and evaluation mechanism, firmly link the quality of reform task completion with the performance appraisal of departments and units, and ensure reform tasks are conveyed clearly at every level.
- **Supervise and inspect:** Organize "retrospective reviews" of key tasks in the three-year state-owned enterprise reform action, solidly promote reform supervision and research, and consolidate reform achievements.
- **Manage intelligently:** Implement a digital and intelligent reform program, achieving digital and intelligent management and analysis of 55 "one entity one form" reform task lists across the CTG.
- **Summarize and publicize:** Carry out the identification of exemplary reform cases, develop a database of typical cases, and actively submit outstanding reform examples to SASAC. Some of these cases have been selected for SASAC's micro case collection under the Reform Deepening and Enhancement Action and for the World-Class SOE Value Creation Benchmarking initiative.

Improve the supervision mechanism

- Build an efficient "comprehensive supervision" system. Issue the Internal Audit Qualitative Issue Classification Guidelines; ensure 100% audit coverage of major investment projects, key overseas business and investment projects, and economic responsibility audits for subsidiary leaders during their terms.
- Strengthen the accountability system for non-compliant operations and investments. Establish a two-level accountability framework, issue relevant policies and procedures for addressing non-compliant business operations and investment activities, and put in place clear mechanisms for accountability reporting, restricted personnel management, and follow-up management improvement recommendations.
- Standardize the post-evaluation of completed projects and strengthen full life cycle management. Revise the post-evaluation system; develop practical guidelines for post-evaluation; complete 108 investment post-evaluation projects and 20 scientific research post-evaluation projects throughout the year.

Honors Awards

Rated as **Grade A** in the key task assessment of the Central SOE Reform Deepening and Enhancement Action.

Achieved **Grade A** in the 2023 Central SOE Benchmarking World-Class Enterprise Value Creation Action.

Maintained **Grade A** in the business performance assessment of central SOE leaders for 17 consecutive years.

All **seven** "Sci-Tech Reform" and "Shuang Bai" subsidiaries rated as "Benchmark" or "Excellent".

Improving the Modern Enterprise System

CTG improves the modern enterprise system with Chinese characteristics, enhances the transparency and scientific decision-making of internal management, and continuously stimulates the internal drivers for reform and development.

Continuously improve the governance mechanism

- Continuously improve the decision-making system and mechanisms for the "three majors and one big" matters; strengthen coordination and information sharing among the Leadership Group meetings, the Board of Directors, the Chairman's special meetings, and the President executive meetings; initiate the compilation of the Board of Directors' Governance and Operation Manual to enhance governance effectiveness.
- Implement a dynamic adjustment mechanism for the list of subsidiary boards that should be established; supervise the standardized and effective operation of subsidiary boards; revise and improve the Evaluation Measures for Subsidiary Boards and External Directors; and fully leverage the responsibilities of external directors.

Continue to deepen the reform of the three systems

- Achieve full coverage of tenure-based and contract-based management, with dual full coverage for managerial staff and enterprises.
- Formulate the Evaluation Measures for the Reform of the Three Systems to solidly promote effective implementation. For three consecutive years, CTG has been awarded the highest level (Level 1) in the reform evaluation conducted by SASAC.

Optimizing Business Structure

CTG focuses on its main responsibilities and core businesses, optimizes capital allocation and layout based on the "three concentrations", strengthens value creation, and improves both production and operational quality and efficiency. CTG's annual economic value added ranked first among central power generation enterprises.

Align with regional strategies

- Vigorously promoted the implementation of key regional strategic plans, signing strategic agreements with Xinjiang, Gansu, Qinghai, Liaoning, Tianjin and other provinces, autonomous regions, and municipalities.

Expand international markets

- Formulate the Guidelines for Country-Specific Market Deployment, clarify the key regions, target countries, and management requirements for international market strategy and deployment, and strengthen the standardization and guidance of international market operations.

Engage in emerging industries

- Formulate the Work Plan for the Layout and Development of Strategic Emerging Industries, coordinate efforts to advance the revitalization action and the "hundred major projects", etc. Its annual investment in strategic emerging industries accounted for over 80% of new investment, with revenue exceeding 30% of total revenue.
- Continue optimizing renewable energy business, accelerate the construction of two mega bases in Gobi deserts and other arid regions, each with a capacity level of 10 million kilowatts, and basically complete five offshore wind power bases, each with a capacity level of 1 million kilowatts.

Qingyu DC Solar Thermal Project, Qinghai Province

Strengthening Innovation-Driven Development

Innovation Mechanism Improvement

Strengthen top-level innovation planning

CTG held a science and technology conference to define the overall goal of "one leadership, three reinforcements" and to advance it through the "Four Ones" approach — one innovation plan, one guiding opinion, one project guideline, one regulation manual. CTG carries out five major initiatives: technological breakthroughs, reform and innovation, system optimization, value enhancement, and capacity strengthening. These efforts focus on achieving breakthroughs in critical core technologies, removing institutional barriers in science and technology management, enhancing research planning and organization, accelerating the application and industrialization of R&D results, and increasing investment in research resources.

Strengthen intellectual property management

CTG advanced the full-chain approach to intellectual property, covering its creation, utilization, protection, and management, and actively promoted the transformation and application of IP assets. CTG developed model clauses for IP terms in research projects as well as guidelines for copyright protection. These measures have made CTG's intellectual property protection more comprehensive and effective.



Key Performance

3.06%

Annual R&D investment intensity reached

68

Received 68 scientific and technological awards at the provincial, ministerial, and industry association levels or above

6,245

Research staff totaled

A-tier

Entered the A-tier in central enterprises' patent quality ranking for the first time

7,508

Filed 7,508 new patents throughout the year

over 57%

Invention patents account for

235

Submitted 235 international patent applications throughout the year

2,992

Granted 2,992 patents throughout the year

over 1,800

Currently holds over 1,800 software copyrights

Innovation Efficiency Improvement

CTG continuously strengthens its role as the main driver of technological innovation, adheres to serving national initiatives as the guiding principle, leverages major engineering projects as key drivers, focuses on breakthroughs in critical core technologies, and ensures the aggregation of innovation resources. CTG builds an integrated innovation model with distinctive CTG characteristics, enhancing independent innovation capabilities through the development of high-level scientific innovation platforms.

Efficiently advance national-level platform construction	The National Engineering Research Center of Eco-Environment of the Yangtze River Economic Belt, a national-level scientific and technological innovation platform, has successfully passed acceptance. One R&D innovation center and five technology verification bases have been essentially completed.
Foster multiple provincial and ministerial innovation platforms	- Hubei Provincial Key Laboratory for High Dam and Large Reservoir Operation Safety and the Fujian Provincial Engineering Research Center for Efficient Offshore Wind Power Development and Utilization are approved. - The National Energy Engineering Technology Research Center for Deep-Sea and Far Offshore Wind Energy Development and Utilization and the National Energy Key Laboratory for Perovskite Photovoltaic Technology underwent the mid-term evaluation of the National Energy Administration's "Race to the Top" innovation platforms during the 14th Five-Year Plan period. - The Hubei Provincial Smart Hydropower Technology Innovation Center received a rating of "Good" in the 2023 provincial technology innovation center performance evaluation conducted by the Hubei Department of Science and Technology. - Established three new academican workstations.
Vigorously advance overseas innovation platforms	- Successfully joined Hylab, a hydrogen energy technology innovation platform initiated by the Portuguese government. - The cooperative platform jointly established with the Brazilian National Service Center for Industrial Training (SENAI) has successfully completed its first phase of construction.
Advance technology-based enterprise cultivation	- Three Gorges Intelligent Control Technology Company was recognized as a specialized, high-end and innovation-driven "Little Giant" enterprise by the Ministry of Industry and Information Technology. - Three Gorges Smart Water Technology Company obtained national high-tech enterprise certification and was rated as a specialized, high-end and innovation-driven SME in Shanghai.

Innovation Achievements

Driven by the demands of major projects, CTG intensified efforts to tackle key core technologies, resulting in a series of landmark and pioneering innovations. An integrated development model combining industry, academia, research, and application was established. The integration of the "four chains" was accelerated, the demonstration and promotion of first-of-a-kind products were strengthened, and CTG continued to lead and drive industry advancement.

Honors Awards

One achievement received the [First Prize of the 2023 National Science and Technology Progress Award](#).

Four achievements were included in the fourth batch of the first (set) major technologies and equipment (projects) in the energy sector by the National Energy Administration.

The ["Ulanqab Source-Grid-Load-Storage Technology R&D and Testing Base"](#) was selected as one of the first projects under the Central Enterprises' Science and Technology Achievement Application Expansion Program.

The ["Autonomous and Controllable Intelligent Excitation System for Large and Medium-Sized Hydroelectric Generators"](#) was named one of the Top Ten Scientific and Technological Innovation Achievements in the Energy Industry for 2024.

The ["Hydrogen Fuel Cell Powered Vessel and Dock-Type Green Power and Green Hydrogen Refueling Station Development"](#) project, along with another achievement, was selected for the Pilot Technology List of Innovation China.

Honored with the first prize of the national science and technology progress award

On June 24, 2024, the National Science and Technology Conference, the National Science and Technology Awards Conference, and the Conference of Academicians of CAS and CAE were held in Beijing. CTG, as the primary completion unit, won the First Prize of the 2023 National Science and Technology Progress Award for the project titled "Complete Technology and Equipment for Safe and Efficient Development and Industrialization of Offshore Wind Power". This marks the second time CTG has received this award as the primary completion unit, following the "Three Gorges Water Conservancy Complex Project on the Yangtze River", which was honored with the Special Prize of the National Science and Technology Progress Award.



First Prize Certificate of the National Science and Technology Progress Award

A Profound Culture of Innovation

CTG fully leveraged the role of the CTG Science and Technology Association as a bridge and link, planned and carried out a series of science and technology activities, successfully held the CTG's first Youth Science and Technology Innovation Festival, hosted the inaugural "Youth Forum on Water Science and Clean Energy Technology", organized the 2024 National Society Party Organization Leaders' Seminar, carried out the themed popular science activities "Pillar of a Great National, CTG's Strength" and the "Science and Innovation Lecture Series", continuously stimulated the innovative vitality of scientific and technological personnel, and fostered a positive innovation atmosphere.



"Jianxingzhe" GIS Indoor Intelligent Inspection Robot

Promoting Digital Transformation

CTG continued to improve the digital work system under the overall blueprint of the "Smart Three Gorges" digital transformation. Supporting implementation plans covering digital twins, BeiDou applications, artificial intelligence, and autonomous controllability were developed. CTG coordinated the intelligent transformation and upgrading to enhance lean management capabilities.

Honors Awards

"Digital Twin Three Gorges Project" was selected as one of the [Top Ten Model Projects for Digital Twin Water Conservancy Construction by the Ministry of Water Resources](#).

The "Industrial Brain Solution for Integrated Innovation in the Next-Generation Hydropower Industry" won first place in the [Leading Group category of the China Industrial Internet Contest](#).

The "Water Manager Unified Platform" was selected as one of the [first batch of typical cases in next-generation information technology at the national level](#).

The "Smart Urban Water Manager Regulation System" was included in the [Product Manual of Scientific and Technological Innovation Achievements of Central State-Owned Enterprises issued by SASAC](#).

The "HyphoonSIM" large-scale offshore wind power integrated numerical simulation and design software was listed as [the first \(set\) major technologies and equipment \(projects\) in the energy sector for 2024](#).

Unlock digital value

- CTG deeply advances the construction of Digital Twin Three Gorges Project, promoting the development of an integrated "air-space-ground-water-engineering" monitoring and sensing system for the digital twin cascade reservoir group centered on the Three Gorges Water Conservancy Complex, along with a Three-Tier Defense System for rainfall and hydrological monitoring and forecasting.
- CTG empowers the world's largest clean energy corridor with an industrial brain through the Industrial Internet of Things, connecting more than 230,000 hydropower equipment components to achieve fully integrated operation monitoring, condition assessment, anomaly warning, and fault diagnosis.
- CTG develops the "Smart Urban Water Manager" model, and build a five-level full-chain intelligent monitoring and sensing system covering "source-pipeline-station-plant-river" along the Yangtze River Economic Belt, enabling scientific assessment, intelligent early warning, coordinated scheduling decisions, and integrated management of urban water environments.

Empower operations with digital and intelligent technologies

- CTG made significant progress in the large-scale application of the BeiDou Navigation Satellite System (BDS), achieving "three full coverages": full application of BDS across all business areas of CTG, full coverage of BDS functional applications, and full coverage of autonomous and controllable timing devices for operational assets primarily based on BDS.
- The big data platform has achieved full coverage of all operating power stations, enabling automatic identification and analysis of reliability events in large hydropower units. Centralized monitoring, robotic maintenance, and drone inspections have produced clear results in smart empowerment.
- CTG promotes artificial intelligence initiatives, deploys a series of application scenarios, and enables AI-driven compliance management, quality inspection, risk early warning, production management, and office administration.

Ensure cybersecurity

- CTG continuously optimizes the network security technical defense system, routinely conducts monitoring and early warning, risk assessment, situational awareness, penetration testing, and emergency response, and establishes a comprehensive cyberspace defense system that balances normal and emergency security operations.
- It effectively supports the joint network security defense and control of central SOEs, with no major cybersecurity incidents reported throughout the year.

Completion of Industrial Internet of Things deployment for the world's largest clean energy corridor

To address the world-class challenge of global collaborative optimization across six cascade power stations on the world's largest clean energy corridor, CTG launched the construction of an "Industrial Brain" on the corridor in 2020. CTG independently developed an Industrial Internet of Things (IIoT) that deeply empowers intelligent operation and maintenance, inspection, scheduling, and decision-making across all business scenarios. The Industrial IIoT has comprehensively enhanced the intelligence level of equipment operation and maintenance, supporting the

digital transformation of next-generation of hydropower stations. By 2024, the Industrial IIoT was fully deployed across the six cascade hydropower stations on the main stream of the Yangtze River, marking the basic completion of the "Industrial Brain" for the world's largest clean energy corridor. The application of this "Industrial Brain" within the basin's power stations has significantly improved operational efficiency and safety reliability, advancing the realization of an intelligent hydropower blueprint.



Smart Urban Water Manager for intelligent water management

The Smart Urban Water Manager platform developed by CTG integrates Internet of Things, big data, and artificial intelligence technologies to achieve comprehensive coverage and collection of water-related data, including urban water supply and drainage, sewage treatment, flood control and drainage, sludge transfer, and coordinated scheduling of plants and pipelines. By means of data integration, model processing, and data management, the platform provides a decision-making foundation for integrated plant-pipeline scheduling, supporting cities in building water data governance systems and data-driven scheduling decision-making systems. In 2024, the Smart Water Manager platform was included in the Product Manual of Scientific and Technological Innovation Achievements of Central State-Owned Enterprises and selected as one of the first batch of model cases in next-generation information technology at the national level, offering a benchmark for the intelligent transformation of the water industry.



ENERGY

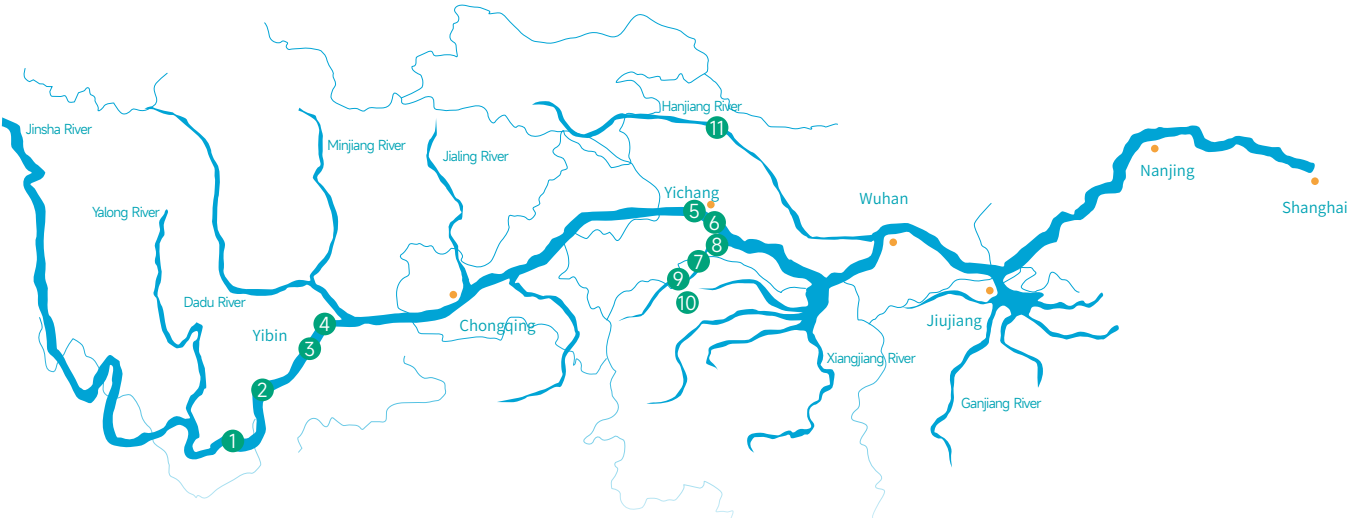
Consolidating the Foundation
for Development

Solar Thermal Power Station in Haixi Prefecture, Qinghai Province

Strengthening the Foundation of Mega Hydropower

Lean Operation of Hydropower Projects

CTG is comprehensively advancing precise scheduling, lean operation, and intelligent management upgrades of the cascade hydropower stations along the main stream of the Yangtze River. Efforts focus on enhancing the overall efficiency of the large corridor and ensuring the clean energy corridor's integrated benefits, contributing to the green energy transition.



- 1

Wudongde Hydropower Station
- 2

Baihetan Hydropower Station
- 3

Xiluodu Hydropower Station
- 4

Xiangjiaba Hydropower Station
- 5

Three Gorges Hydropower Station
- 6

Gezhouba Hydropower Station
- 7

Geheyan Hydropower Station
- 8

Gaobazhou Hydropower Station
- 9

Shuibuya Hydropower Station
- 10

Jiangpinghe Hydropower Station in the Dongting Lake System
- 11

Sanliping Hydropower Station in the Hanjiang River System

Key Performance

76.139_{GW}

Total installed hydropower capacity in China

305.88_{TWh}

Annual hydropower generation

6.8%

Year-on-year growth in hydropower generation

Honors

Awards

The Three Gorges Power Plant was recognized as "2023 Advanced Plant under the Direct Dispatch System of the National Power Dispatch & Control Center".

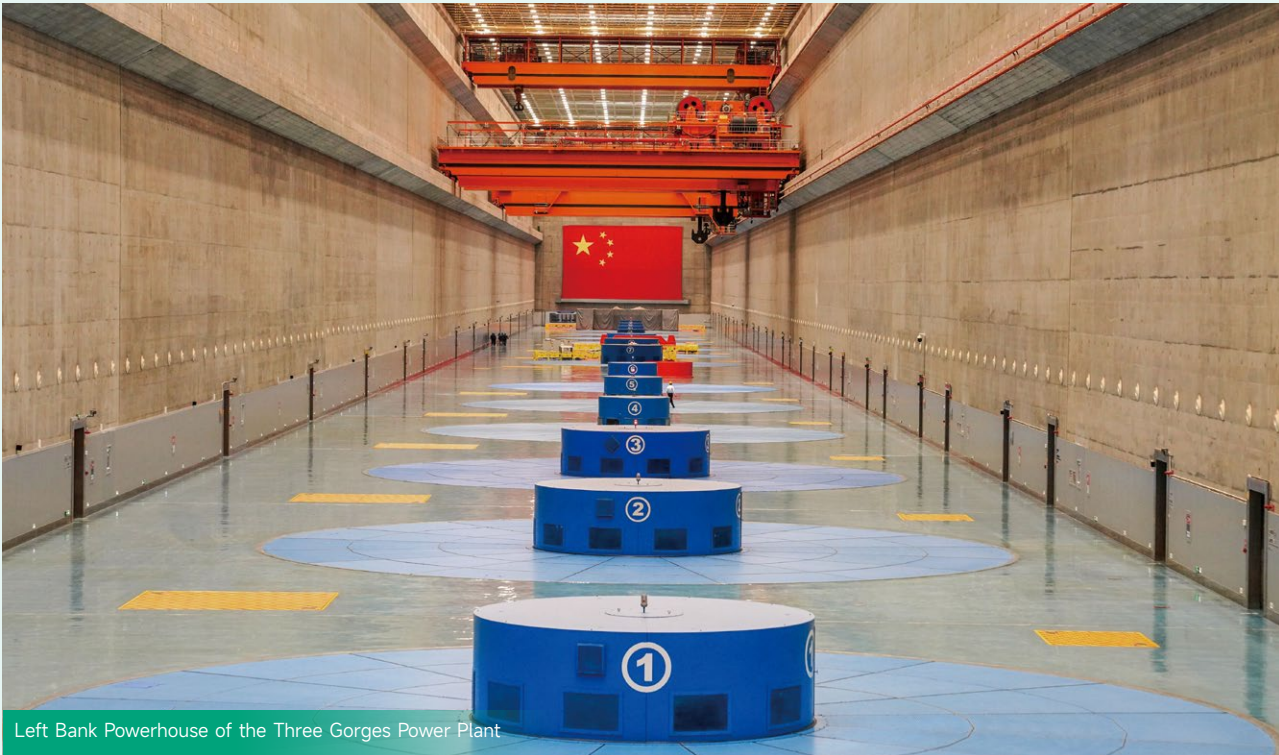
The Gezhouba Hydropower Station was recognized as a "Level I Enterprise for Work Safety Standardization in the Power Sector".

The Three Gorges and Xiangjiaba Hydropower Stations received the first batch of large hydropower green certificates in China.

Ensuring stable power supply	- The cascade hydropower stations along the main stream of the Yangtze River generated an additional 12.87 TWh of electricity through water-saving operations over the year. All 110 units operated at full capacity for the first time, with total output exceeding 70 GW, which is equivalent to 5% of the national peak load. - The cascade hydropower stations maintained year-round peak shaving operations, with a maximum daily peak shaving capacity of 31.77 GW. - The Three Gorges, Baihetan, Xiangjiaba, and Gezhouba hydropower stations all achieved "zero unplanned shutdowns" throughout the year. - The Baihetan Hydropower Station reached an output of 16 GW, marking its first full-load operation since commissioning, with both average annual peak shaving volume and the number of peak shaving days hitting record highs.
Optimizing cascade reservoir dispatch	- CTG strengthened meteorological and hydrological forecasting to ensure safe flood control while arranging reservoir operations accordingly. - The cascade reservoirs in the lower reaches of the Jinsha River completed their drawdown tasks for the first time through integrated use of flood control storage capacity, with a maximum release of approximately 7.9 billion m³ in July and around 3.8 billion m³ at Xiluodu and Xiangjiaba in August. - The Qingjiang cascade reservoirs made flexible use of storage capacity to retain floodwaters during the rainy season, successfully avoiding water discharge, maximizing the use of rainwater and flood resources, and boosting power generation efficiency.
Driving innovation for quality and efficiency	- During the Class A maintenance of the left bank units at the Three Gorges Power Station, the remote intelligent operation system of the bridge crane was successfully used to lift out the rotor of Unit 6. This is the first time in the hydropower industry that a key process has been automated, filling the technical gap in the remote intelligent operation of large bridge cranes in hydropower stations both domestically and internationally. - Wudongde Hydropower Station actively advanced applied research in real-world simulation and digital twin technologies, realizing real-time, full-space, and full-lifecycle monitoring of equipment. - Its "Real-Time Online Physical Field Monitoring Technology" was successfully applied to Unit 12, becoming the industry's first online monitoring system for key parts of hydropower generators based on digital twin technology, enabling real-time forecasting and intelligent health management. - The production data of the world's largest single-unit hydro-turbine generating unit, with an installed capacity of 1 GW, has been uploaded to the Industrial Internet of Things, marking significant progress in the construction of the plant-level Industrial Internet of Things at Baihetan Hydropower Station on the Jinsha River. - The excitation and governing systems of the million-kilowatt hydro-turbine generating units at Baihetan have successfully been included in the fourth batch of the first (set) major technologies and equipment (projects) in the energy sector, achieving a historic breakthrough. - The "Smart Gantry Crane" at Gezhouba Hydropower Station integrates BeiDou, laser, radar, and other sensors to achieve fully automated operation. This is a significant achievement in Gezhouba's digital transformation and industrial upgrading, setting a national benchmark for equipment renewal in the industrial sector.

The Three Gorges Power Plant recognized as "2023 Advanced Plant under the Direct Dispatch System of the National Power Dispatch & Control Center"

In 2024, the Three Gorges Power Plant, with its outstanding operational management performance, stood out among 84 directly dispatched plants nationwide and was named "2023 Advanced Plant under the Direct Dispatch System of the National Power Dispatch & Control Center" by the National Power Dispatching & Control Center of State Grid Corporation of China, as announced in its official notice. The plant was commended at a relevant meeting, and this honor serves as authoritative recognition of its core capabilities in work safety, dispatch implementation, equipment maintenance, and shift operations, highlighting its exemplary status as a benchmark for ensuring energy supply security.



Left Bank Powerhouse of the Three Gorges Power Plant

Orderly Development of Pumped Storage

CTG, closely aligned with the "carbon peaking and carbon neutrality" goals, has steadily and orderly planned its pumped storage development, and continuously deepened the "planning, investment, construction, and operation" management system for pumped storage projects, thereby providing crucial support for building a new type of power system.



- Zhejiang Changlongshan Pumped Storage Power Station has achieved full autonomous operation and completed the acceptance inspection of environmental protection and soil and water conservation facilities upon project completion.
- The No. 1 unit of the main powerhouse at Tiantai Pumped Storage Power Station in Zhejiang has been successfully topped out. Construction has shifted from concrete pouring to electromechanical equipment installation at this pumped storage station with the largest single-unit capacity in China. It is expected to be the first pumped storage project approved and put into operation within the 14th Five-Year Plan period.
- Pumped storage projects in Zhangye (Gansu), Nanshankou (Qinghai), and Qingjiang (Hubei) have commenced the construction of main structure.
- Excavation of underground pumped storage powerhouses is progressing smoothly at Shitai (Anhui), Songyang (Zhejiang), and Pingtanyuan (Hubei).
- The preparation-phase construction of pumped storage power stations is steadily advancing at sites in Nanzhang (Hubei), Youxian (Hunan), Shanyang (Shaanxi), and Caiziba (Chongqing).



Changlongshan Pumped Storage Power Station, Huzhou City, Zhejiang Province

The largest pumped storage power station in China by single-unit capacity

On September 29, 2024, the No. 1 unit of the main powerhouse at Zhejiang Tiantai Pumped Storage Power Station was successfully topped out, marking the transition of construction from concrete pouring to electromechanical equipment installation. The Power Station plans to install four reversible hydro-turbine generating units, each with a capacity of 425 MW, making it the largest single-unit capacity among China's pumped storage power stations. The project has also set a series of new world and domestic engineering records, including a rated head of 724 meters, which is the highest among pumped storage stations under construction in the world, and the first domestic application of 1,000 MPa hydropower steel.

Empowering the Growth of Renewable Energy

Diversified Development Layout

Following the strategy of "promote joint development of wind and solar energy, with parallel advancement of offshore and onshore projects", CTG accelerates the growth of its renewable energy business, with installed capacity ranks among the top in the industry.

**Key Performance**

11.89_{GW}
Renewable energy installed capacity added in the year

61.04_{GW}
Total renewable energy installed capacity

7.05_{GW}
Offshore wind power installed capacity

Onshore renewable energy

The Xinjiang Ruoqiang Mega Base, the Power Supply Project for the Fourth Power Transmission Channel in Xinjiang, has officially started construction.	Phase II of the photovoltaic project at Inner Mongolia's Ordos Central-Northern Renewable Energy Base in the Kubuqi Desert, China's first double-digit gigawatt level large-scale wind and solar base in Gobi and other desert regions, has been fully connected to the grid.	China Three Gorges Renewables Hami 1-GW "Solar Thermal + Photovoltaic" Integrated Energy Demonstration Project, China's largest Linear Fresnel solar thermal integrated energy demonstration project, has been connected to the grid.
The Three Gorges Binhai 200MW/400MWh Standalone Energy Storage Power Station, the largest string-type standalone energy storage power station in China, has been connected to the grid at full capacity.	China Three Gorges Renewables Hainan Yazhou 100 MW Photovoltaic Project, the first renewable energy project in Hainan, has been connected to the grid at full capacity.	The first batch of wind and solar projects at the clean energy base in the lower reaches of the Jinsha River has been connected to the grid at full capacity.

Offshore wind power

Phase II of the Zhangpu Liu'ao Offshore Wind Farm in Fujian, the first project in China featuring large-scale deployment of 16 MW offshore wind turbine units, has been connected to the grid at full capacity.	
The Qingzhou Phase VI Offshore Wind Power Project in Guangdong has been connected to the grid at full capacity.	The Dongshan Xingchen 180 MW Offshore PV Project, the first offshore photovoltaic project in Fujian Province, has connected its first batch of generating units to the grid.

The Xinjiang Ruoqiang Mega Base, the Power Supply Project for the Fourth Power Transmission Channel in Xinjiang, officially starts construction

On September 28, 2024, the Power Supply Project for the Fourth Power Transmission Channel in Xinjiang, also the first double-digit gigawatt level comprehensive energy base project integrating wind, solar, thermal, and storage in southern Xinjiang, invested by CTG, commenced construction in Ruoqiang County, Bayingol Mongolian Autonomous Prefecture, Xinjiang Uygur Autonomous Region. The project has a total planned installed capacity of approximately 16.5 GW (including 4 GW of wind power, 8.5 GW of photovoltaic power, and 4 GW of supporting coal power). It combines multiple benefits such as energy development, ecological restoration, desertification control, and poverty alleviation. It will significantly boost local investment, drive the agglomeration of upstream and downstream industries, and play a crucial role in developing characteristic and advantageous industries in southern Xinjiang, improving people's livelihoods, and promoting high-quality development in the region.

The first project in China featuring large-scale deployment of 16 MW offshore wind turbine units has been connected to the grid at full capacity

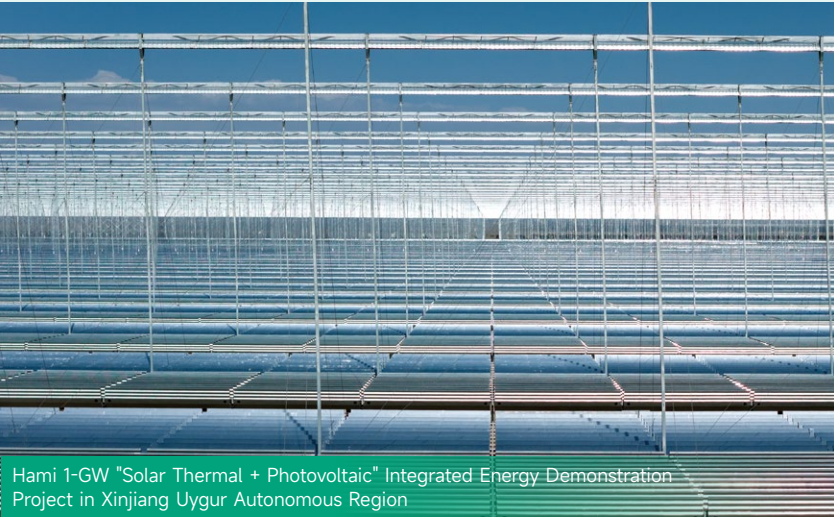
On June 27, 2024, Phase II of the Zhangpu Liu'ao Offshore Wind Farm, the first project in China featuring large-scale deployment of 16 MW offshore wind turbine units, was connected to the grid at full capacity. The project has a total installed capacity of 400 MW, utilizing 28 offshore wind turbine units with a single-unit capacity of 13 MW and above, including 6 offshore wind turbines with a single-unit capacity of 16 MW. After commissioning, the project is designed to generate over 1.6 TWh of electricity annually, saving approximately 500,000 tonnes of standard coal and reducing carbon dioxide emissions by about 1.36 million tonnes each year.



Phase II of the Zhangpu Liu'ao Offshore Wind Farm in Fujian Province

China's largest Linear Fresnel solar thermal integrated energy demonstration project has been connected to the grid

On December 22, 2024, the photovoltaic part of China's largest Linear Fresnel solar thermal integrated energy demonstration project, Hami 1-GW "Solar Thermal + Photovoltaic" Integrated Energy Demonstration Project, was connected to the grid. The project has a total installed capacity of 1 GW, including a planned 100 MW Linear Fresnel solar thermal energy storage power station and a 900 MW photovoltaic power station. The project generates electricity with PV during the day and switches to solar thermal generation at night, ensuring stable and controllable output and enhancing the grid's capacity to absorb renewable energy.



Hami 1-GW "Solar Thermal + Photovoltaic" Integrated Energy Demonstration Project in Xinjiang Uygur Autonomous Region

Leading Industrial Upgrading

As the lead developer of China's modern offshore wind industrial chain, CTG adheres to the principles of joint contribution and shared benefits, as well as strengthening and extending the industrial chain. It fully promotes large-scale development of offshore wind farm clusters, deepens industry-university-research-application cooperation, and drives technological progress and modernization of the renewable energy industry chain.

Demonstration sites for smart power stations achieve intelligent operation and maintenance

The Guangsheng Photovoltaic Power Station in Wuwei City, Gansu Province, the Tongli No. 3 Wind Farm in Ningxia Hui Autonomous Region, and the Xitieshan Wind Farm in Qinghai Province have deployed cloud-edge-end integration, AI algorithm collaboration between cloud and edge, and cloud-native intelligent upgrades. These sites have realized three major transformations: shifting from traditional operation and maintenance models to intelligent operation and maintenance, regionalized maintenance, and unmanned operations. This has effectively enhanced the intrinsic safety of O&M personnel, improved work efficiency and quality, reduced O&M costs, and increased equipment reliability. Through technological innovation, these projects are driving the upgrading and development of the entire industry chain.

The 2024 Modern Offshore Wind Power Industry Chain Co-Development Action Conference

On November 16, 2024, the 2024 Modern Offshore Wind Power Industry Chain Co-Development Action Conference was held in Beihai City, Guangxi Province. The conference, themed "Innovation and Integration to Promote the High-Quality Development of China's Offshore Wind Power Industry Chain", brought together representatives from upstream, midstream, and downstream enterprises across the national wind power industry chain. The event aimed at promoting the integrated development within the offshore wind power industry chain.



Promoting Green Transition

CTG adheres to the principles of ecological priority and green development, driving industrial upgrading and creating employment opportunities through renewable energy projects, thereby supporting the green transition of the economy and society.

The "agrivoltaic" model enhances economic benefits

The Huidong Runjia 70 MW agrivoltaic power generation project in Guangdong Province adopts a model combining green electricity generated above the panels and green vegetables grown beneath them. Using soilless cultivation technology, it grows vegetables while generating clean power, delivering green electricity and fresh produce to the dining tables of residents in the Guangdong-Hong Kong-Macao Greater Bay Area. This approach not only promotes economic development but also enriches the community's food supply.

The Kubuqi Photovoltaic Desert Control Project innovatively explores the "photovoltaic plus desertification control plus agriculture" model to enhance ecological benefits

The Ordos Central-Northern Renewable Energy Base Project in the Kubuqi Desert, Inner Mongolia Autonomous Region, pioneered a new model integrating photovoltaic power generation, desert control, and modern agriculture. Early ecological restoration results are evident, with shelterbelts around the perimeter and shelter forests along internal roads showing good growth. This project contributes to improving the local ecological environment and building a "green Great Wall" along China's northern frontier, demonstrating CTG's commitment to ecological governance.



Driving Steady and Long-term Global Portfolio

CTG has actively participated in the Belt and Road Initiative, and continuously deepened international clean energy cooperation. It has invested in and constructed landmark clean energy projects across 12 countries and regions worldwide, providing strong momentum for the global energy transition and economic development.

 Key Performance

Over **12** GW of
Consolidated installed capacity
overseas

Boosting International Clean Energy Development

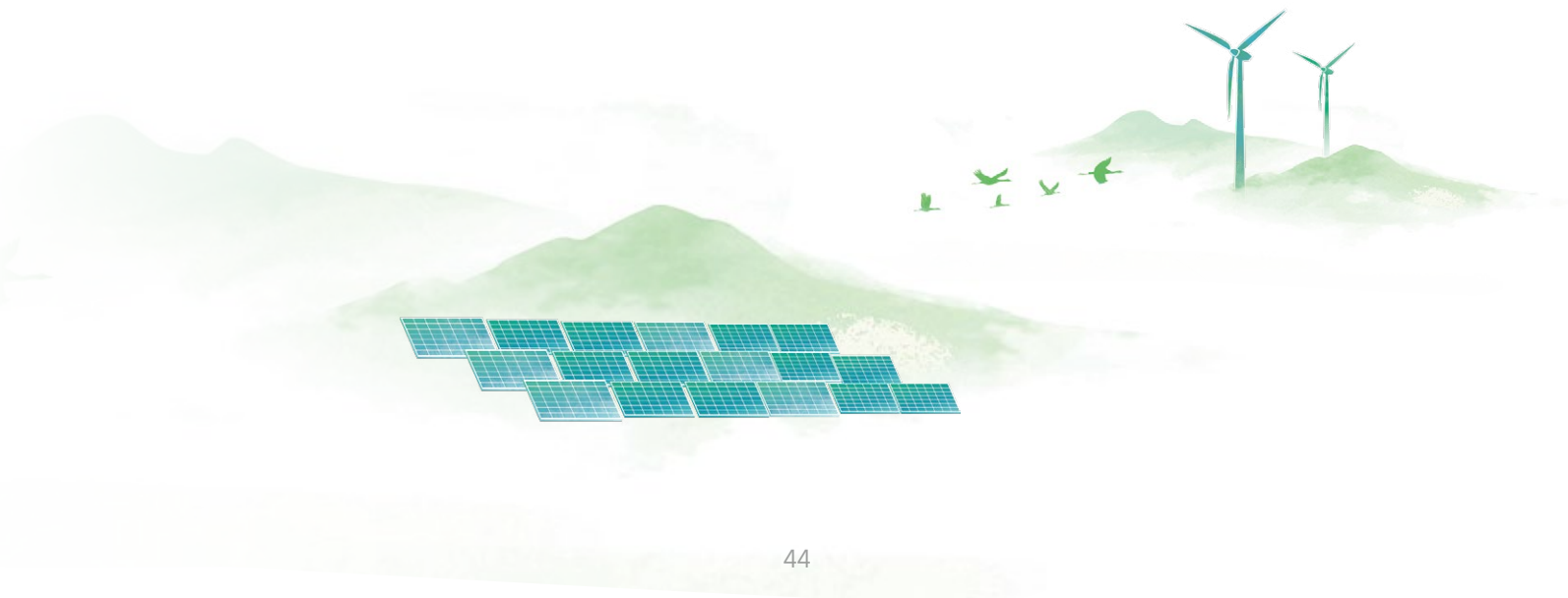
CTG consistently upholds the principles of extensive consultation, joint contribution, and shared benefits, focusing on high standards, sustainability, and improving people's livelihoods. Leveraging its industrial strengths, CTG promotes the development of international clean energy. With advanced technologies, extensive experience, and innovative models, it collaborates with partner countries to advance green, low-carbon, and sustainable development, contributing CTG' expertise and China's strength to addressing climate change, ensuring energy security, and fostering green growth.

- The installation of all units at the San Gabán III Hydropower Station in Peru has been completed.

The Spanish Belvis Project has achieved full-capacity grid connection.

The Arinos Photovoltaic Project in Brazil has achieved full-capacity grid connection.

The Sapphire Wind Power Project in Peru has completed its acquisition.



The installation of all units at the San Gabán III Hydropower Station in Peru has been completed

The San Gabán III Hydropower Station in Peru is the first greenfield hydropower development project invested in Peru by CTG, as well as by any Chinese enterprise. With a total installed capacity of 209.3 MW, it will be the sixth largest hydropower project in Peru upon commissioning. It is designed to generate 1,252 GWh annually, reducing 338,000 tonnes of carbon dioxide and a large volume of waste and pollutant emissions. The project also helps alleviate electricity shortages for millions of people in southern Peru and promotes local economic development.



San Gabán III Hydropower Station in Peru

CTG's largest overseas greenfield wind power project - the Serra da Palmeira Wind Complex in Brazil

The Serra da Palmeira Wind Complex in Brazil has installed 108 wind turbines with a total installed capacity of 648 MW, making it CTG's largest overseas greenfield wind power project. Upon completion, the project is expected to generate approximately 2,554 TWh of clean electricity annually, save 779,000 tonnes of standard coal, and reduce 2.125 million tonnes of carbon dioxide emissions, thereby providing sustained clean energy support for local economic development.



Serra da Palmeira Wind Complex in Brazil

Ensuring Stable Supply of Green Power

CTG relies on efficient energy production and scientific project operation management to continuously strengthen the safe and stable operation of overseas green power equipment and facilities, providing solid assurance for the energy security of the countries and regions where it operates, and setting a benchmark for the stable supply and sustainable development of global power.

The Arinos Photovoltaic Project in Brazil achieves full-capacity grid connection and power generation exceeds 100 GWh for the first time

The Arinos Photovoltaic Project in Minas Gerais, central Brazil, is CTG's first self-developed, integrated greenfield project combining investment, construction, and operation. In 2024, its power generation reached 115 GWh, surpassing 100 GWh for the first time, and the project achieved full-capacity grid connection by the end of the year.

Karot Hydropower Station continues to provide green power to Pakistan

The Karot Hydropower Station in Pakistan is the first hydropower investment project under the China-Pakistan Economic Corridor, with a total installed capacity of 720 MW. As of December 2024, its cumulative power generation reached approximately 7.5 TWh, supplying electricity to over 5 million people and effectively easing Pakistan's power supply-demand imbalance.

Empowering Industrial Upgrading with Technology

CTG actively embraces the global wave of clean energy industry upgrading. Through technology transfer and lean management, it effectively improves energy utilization efficiency, reduces operating costs, and enhances system stability and reliability, supporting the clean energy industries in various countries to advance toward higher quality and stronger competitiveness.

At the Meerwind Offshore Wind Power Project in Germany, the project generated 1,208 GWh of electricity in 2024 by implementing optimized operation and maintenance strategies.

In Peru, digital empowerment and equipment upgrades improved distribution efficiency at Luz Del Sur Company, serving over 6 million residents.

During the upgrade of the Jupia and Ilha Solteira hydropower stations in Brazil, the application of CTG' smart operation and maintenance technologies elevated unit performance to an advanced level in Brazil. In 2024, the stations generated 18.32 TWh, and upon completion of all unit upgrades, annual clean energy output is expected to increase by 160 GWh, aiding local energy structure optimization.



Karot Hydropower Station in Pakistan



Jupia Hydropower Station in Brazil

ECO- ENVIRONMENTAL CONSERVATION

Preserving the Natural Essence



CTG's First Solid Waste Treatment Project - Waste-to-Energy Plant in Yichang City, Hubei Province

Strengthening the Environmental Conservation Mechanism

Enhancing top-level design

The Three-Year Ecological Restoration Action Plan of China Three Gorges Corporation (2024–2026) was released, focusing on the protection and restoration of water ecosystems in the Yangtze River Basin, including rivers, lakes, and reservoir areas, with desertification control as a key breakthrough. The plan also involves participation in the protection and restoration of natural, urban, marine, farmland, and mining ecosystems, contributing to water ecological security, biodiversity conservation, soil erosion and desertification prevention, ecological risk containment, ecological quality improvement, and the building of a beautiful China.

Conducting benchmarking against leading standards

Benchmarking and evaluation was launched to build a domestically leading ecological and environmental conservation enterprise. An indicator system was established, with identified improvement paths and implementation measures. Environmental management benchmarking was carried out against world-class standards by studying 17 units, with recommendations provided for improving management quality and efficiency in three key areas, including management systems.

Optimizing management systems

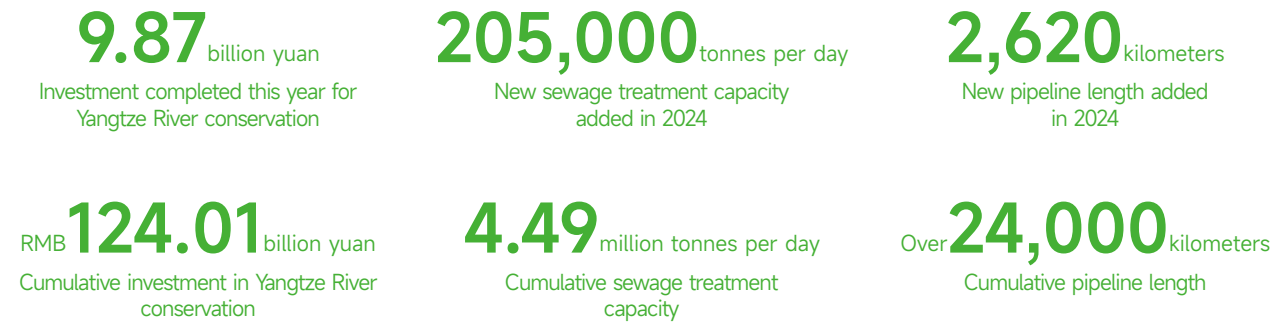
CTG revised the Ecological Environmental Protection Compliance Management Rules and related procedures, conducted identification and assessment of environmental factors, improved emergency response plans for environmental incidents, and carried out emergency drills. It integrated multi-dimensional management measures and reinforced accountability to keep environmental factors and risks within controllable limits. The environmental management system operated effectively with zero unexpected environmental incidents throughout the year.

Enhancing the supervision system

CTG continued deep integration of technical supervision with environmental management systems, coordinating key processes such as risk management, compliance, emergency response, and performance assessment. It established a project-centered hierarchical supervision mechanism to systematically identify grassroots risks and hidden hazards, trace root causes, and improve management systems. It developed annual supervision plans based on environmental risk identification, incorporating key system operation areas into inspection and assessment cycles. It also strengthened the ecological environmental conservation responsibilities of all units to ensure full-process environmental supervision coverage for construction projects.

Jointly Promoting the Yangtze River Conservation

Key Performance



Exploring CTG's New Water Governance Solution

Starting with urban sewage treatment, an integrated governance system covering treatment plants, pipelines, rivers, lakes, and shores is being established. This approach organically combines the enhancement of sewage treatment capacity with aquatic ecosystem restoration, adheres to scientific and systematic governance, and actively promotes improved quality and efficiency in urban sewage treatment.

The "Two Plants and Four Stations" of the Huaxi River Comprehensive Improvement Project in Banan District, Chongqing, have all been put into operation

In January 2024, the "Two Plants and Four Stations" of the Huaxi River Comprehensive Improvement Project in Banan District, Chongqing Municipality, commenced full operation. The project established a comprehensive lifecycle management system covering water supply, collection, and drainage, with a sewage treatment capacity of 95,000 tonnes per day. It is expected to provide approximately 20 to 30 million tonnes of ecological water replenishment to the Huaxi River annually, serving as a benchmark for integrated governance of plants, pipelines, rivers, lakes, and shores.

Honors Awards

- The project "Urban Overflow Pollution Control Technology and Application" won the **First Prize for Environmental Technology Progress** awarded by the China Association of Environmental Protection Industry.
- The project "Key Technologies and Applications for Enhancing Urban Water Environment System Efficiency" received the **Second Prize of the Hubei Provincial Science and Technology Progress Award**.
- The Yixing Urban Sewage Resource Concept Plant in Jiangsu Province received the **PIA Gold Award at the Global Water Summit** and was honored with the **exclusive 2024 Grand Innovation Award** by the International Water Association.

CTG's first fully participated Yangtze River conservation project passes special acceptance

On October 12, 2024, CTG's first fully participated Yangtze River conservation project - the Phase I PPP Project for the Comprehensive Improvement of the Water Environment System in the Central Urban Area of Jiujiang, Jiangxi Province - successfully passed its special acceptance. This provides a model for the standardized implementation of future Yangtze River conservation projects.

Shuangxi Park, Jiujiang City, Jiangxi Province

Creating a New Benchmark for Pipeline Network Upgrading

CTG is vigorously tackling pipeline network challenges in the Yangtze River Economic Belt, leading industry demonstrations, establishing a long-term "user pays" mechanism, and advancing the implementation of pipeline pricing reform to gradually shift payment responsibility from the government to users.

- CTG supports Yichang City (Hubei Province) in completing the first structural adjustment of its sewage pricing mechanism reform, facilitating the gradual transition from government to user payment.
- CTG promotes the inclusion of Yichang City (Hubei Province), Jiujiang City (Jiangxi Province), Yueyang City (Hunan Province), and Lu'an City (Anhui Province) in the pilot promotion of the Yangtze River Economic Belt pipeline network upgrade campaign.
- CTG also advances the inclusion of Wuhu City (Anhui Province), Jiujiang City (Jiangxi Province), Yueyang City (Hunan Province), Yichang City (Hubei Province), and Ezhou City (Hubei Province) as pilot cities for sewage fee reform under the National Development and Reform Commission.

Honors Awards

The "Complete Technology and Application of Trenchless Repair for Urban Drainage Pipe Networks" won the First Prize of China's Industry-University-Research Cooperation Innovation Achievements.

Forming a New Model of "Smart Urban Water Manager"

CTG is creating the "Smart Urban Water Manager" urban service brand and building a full life-cycle smart water management system. It empowers water resource management with intelligent and full-cycle management models, providing replicable commercial development models for the industry.

- CTG issued the Work Plan for Creating Benchmark Projects of Smart Urban Water Manager in Yichang, Wuhu, Jiujiang, and Other Cities, promoting the establishment of benchmark demonstration projects by Smart Urban Water Manager service companies and further advancing practices in Shishou City (Hubei Province), Yuanjiang City (Hunan Province), and other locations.
- The Smart Urban Water Manager project in Lu'an City, Anhui Province has realized a sustainable business model. The centralized collection rate of urban domestic sewage has significantly improved, the assessment targets during the 14th Five-year Plan period were achieved ahead of schedule, and public service levels continue to rise, earning high recognition from the government and widespread social praise.
- The Smart Urban Water Manager project in Jiujiang City, Jiangxi Province has developed a business layout emphasizing "plant-pipeline-river-lake-shore, with equal focus on sludge and water", with systematic governance results now fully evident.

Honors Awards

The Smart Urban Water Manager Regulation System was included in the Product Manual of Scientific and Technological Innovation Achievements for Central State-Owned Enterprises issued by SASAC.

The "Smart Urban Water Manager" brand was recognized in the "Chinese Enterprise Brand Innovation Achievements" by the China Association for Quality.

The government-enterprise cooperation practice in ecological conservation in Wuhu City was selected as a typical case in China's major national projects and programs and security capacity in key areas.

Tackling Climate Change

Improving the Low-Carbon Development System

Optimize the carbon emission management system

CTG aligns with China's "Carbon Peaking and Carbon Neutrality" strategy by deepening research on carbon emissions management, completing annual carbon accounting and reporting, analyzing emissions trends with full consideration of production and operational factors, and monitoring progress towards carbon peaking goal in real time to support dynamic goal adjustments.

Innovate the carbon asset development model

CTG has created a benchmark for CCER (China Certified Emission Reduction) development in offshore wind power, taking the lead in developing carbon assets for four offshore wind projects in China's national voluntary greenhouse gas emissions reduction trading market, with the largest scale among domestic power generation companies. CTG also coordinated internal carbon trading activities, achieving a cumulative surplus of about 1.08 million tonnes of carbon allowances, and ensured that compliance obligations in the national carbon emissions trading market were fulfilled on schedule.

Promote industry standard development

CGT has organized the drafting of the group standard Greenhouse Gases - Product Carbon Footprint Quantification Methods and Requirements for Hydropower; completed research and calculations for China's hydropower carbon footprint factors; and saw these results jointly released by China's Ministry of Ecology and Environment, National Bureau of Statistics, and National Energy Administration.

Honors Awards

CTG performed excellently in the 2023 Reform Deepening and Upgrading Action organized by SASAC, specifically in the key task assessment for Promoting the Digital, Intelligent, and Green Transformation and Upgrading of Traditional Industries, ranking first among central SOEs.

The first phase of the Hunshandake-Horqin Sandy Land Southern Edge Restoration Project, as a demonstration project by a central SOE under the Three-North Shelterbelt Forest Program, was included as a typical case for promotion and exchange in China's major national projects and programs and security capacity in key areas.

The Non-complete Catalytic Oxidation Coupled with Multi-effect Clarification Technology for Advanced Sewage Purification was included in the 2024 Edition of the Green Technology Promotion Catalog issued by China's National Development and Reform Commission and seven other ministries.

The 16 MW Ultra-Large-Capacity Offshore Wind Turbine Technology Application, Large-Scale Application Technology for Perovskite Solar Cells, and Hydrogen Fuel Cell-Powered Vessel Development were included in the Fifth Batch of the National Key Low-carbon Technology Promotion Catalog jointly released by China's Ministry of Ecology and Environment and other ministries.

Two cases, including the Kubuqi Desert Photovoltaic Desertification Control Project, were selected as SASAC's Best Practices of Central SOEs in Green and Low-Carbon Development.

Supporting the Three-North Shelterbelt Forest Program to strengthen the ecological barrier in northern China

The Three-North Shelterbelt Forest Program is a major national initiative vital to China's ecological security and the sustainable development of the Chinese nation. The first phase of the Hunshandake-Horqin Sandy Land Southern Edge Restoration Project, implemented by CTG, serves as an important backbone in reinforcing the ecological security barrier in northern China. The program plays a critical role in reducing sandstorm sources in the Beijing-Tianjin region, mitigating sandstorm impacts, and safeguarding Beijing's environmental security. The program has a three-year construction period and a two-year maintenance period, with a planned desertification control area of 24,200 hectares (363,000 mu). In 2024 alone, 6,206.67 hectares (93,100 mu) were restored and 2.14 million seedlings were planted. Upon completion, the forest coverage rate is expected to increase by 2.44%, grassland coverage by 5.36%, desertification control rate by 6.51%, while the proportion of mobile and semi-fixed sandy land will decrease by 2.26%.



Before the Comprehensive Restoration Under the Three-North Shelterbelt Forest Program



After the Comprehensive Restoration Under the Three-North Shelterbelt Forest Program

Promoting Green and Low-Carbon Operations

Comprehensively improve the level of green operations

CTG integrates the concept of green and low-carbon development throughout the entire life cycle of its projects. It optimizes equipment operation, improves water energy utilization efficiency, lowers unit power generation energy consumption, and reduces carbon emissions.

Actively promote green technology innovation

CTG leverages its National Engineering Research Center of Eco-Environment in the Yangtze River Economic Belt and original technology innovation bases for ecological and environmental conservation, continuously increasing investment in the research and development of green and low-carbon technologies.

Continuously promote green office practices

CTG fully implements paperless office practices, advocates green traveling, strengthens energy-saving management, and actively builds a resource-efficient and environmentally friendly enterprise.

Honors Awards

The North Urban Sewage Treatment Plant (Phase II) in Lu'an City, Anhui Province, operated and managed by Yangtze Ecology and Environment Co., Ltd. under CTG, was selected as one of China's first batch of Green and Low-Carbon Benchmark Sewage Treatment Plants.

Since 2022, CTG has achieved full green electricity consumption at its headquarters and all secondary subsidiaries headquarters through green certificate trading.

Protecting Biodiversity

Aquatic Life Protection

CTG has continuously conducted joint ecological regulation experiments for the Xiluodu-Xiangjiaba-Three Gorges Reservoir cascade. It has fully launched the ecological compensation projects for rare and endemic fish reserves in the upper reaches of the Yangtze River, including Phase II of the national-level reserve project. CTG issued the implementation plan for these compensation projects and established a coordination meeting mechanism. Innovative technologies such as environmental DNA have been adopted to enhance the scientific rigor and precision of ecological regulation models. Ecological scheduling monitoring research is ongoing. Multiple scientific and technological breakthroughs have been achieved in fish habitat restoration and water ecosystem protection.



Water ecological conservation and restoration



Rare fish protection

More than 120 species of rare, endemic, and economically important fish from the Yangtze River have been collected and domesticated, representing one-quarter of all Yangtze fish species. This has formed the largest and most diverse live fish germplasm resource bank in China. Breakthroughs have been made in large-scale breeding of Chinese sturgeon, Dabry's sturgeon, largemouth bronze gudgeon, and Rhinogobio ventralis. The largest population ladder in the country has been established, enabling large-scale seedling production.



Stock enhancement and release

CTG released approximately 4.2 million individual rare and endemic fish of the Yangtze River, including Chinese sturgeon, Dabry's sturgeon, and largemouth bronze gudgeon in 2024.

Key Performance

68.7 billion eggs

Annual reproduction scale of drifting-egg fish in the Yidu section of the Yangtze River

34.2 billion eggs

Annual spawning of the "four major Chinese carps" promoted by joint ecological regulation of cascade reservoirs in the Yangtze River Basin (Yidu section monitoring)

12 times

Annual large-scale proliferation and release of rare and endemic fish

Honors Awards

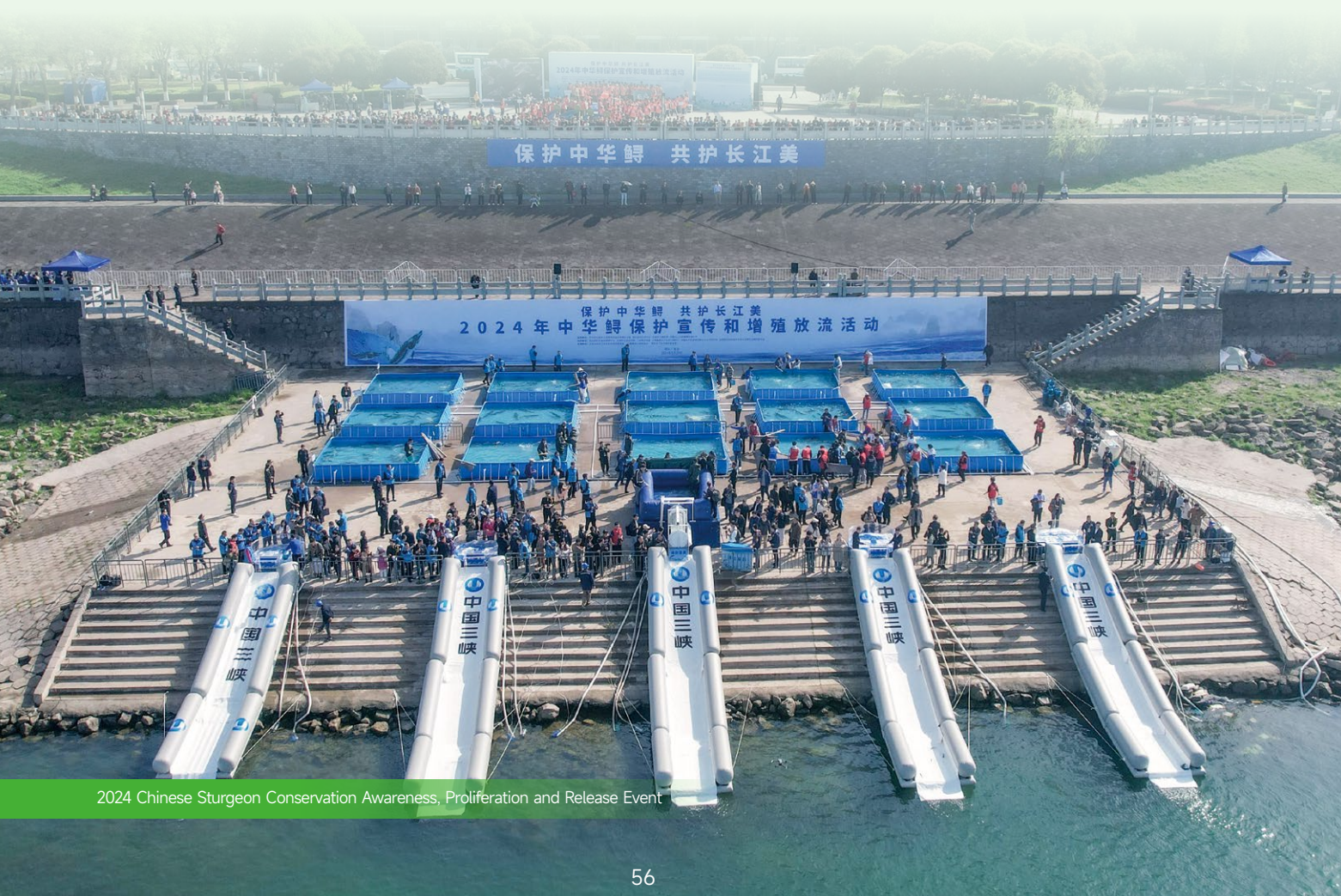
The Aquatic Organisms Testing Center of the Chinese Sturgeon Research Institute obtained CNAS accreditation.

The Chinese Sturgeon Research Institute was successfully approved by China's Ministry of Agriculture and Rural Affairs as a "Chinese Sturgeon Germplasm Protection and Breeding Base (First Batch)".

The Hubei Provincial Key Laboratory for Fish Resources Protection of the Three Gorges Project was rated "Excellent - Benchmark Laboratory".

200,000 F2 Chinese sturgeons released into the Yangtze River

On March 28, 2024, China's Ministry of Agriculture and Rural Affairs organized a Chinese sturgeon conservation awareness, proliferation and release event in Yichang City, Hubei Province. The event was co-hosted by the Yangtze River Fishery Administration Office of the Ministry of Agriculture and Rural Affairs, the Hubei Provincial Department of Agriculture and Rural Affairs, the Yichang Municipal People's Government, and CTG. A total of 200,000 juvenile, 700 two-year-old, 120 three-year-old, 100 five-year-old, and 10 fifteen-year-old second-generation (F2) Chinese sturgeons were released into the Yangtze River at the Yichang Rare Fish Release Site.



2024 Chinese Sturgeon Conservation Awareness, Proliferation and Release Event

Terrestrial Species Protection



Accelerating platform development

CTG is expediting the development of the Yangtze Rare Plant Germplasm Bank, the Xiangjiaba and Xiluodu Rare Botanical Garden Research Platform, the Mainstream Ecological Experimental Station within the National Nature Reserve for Rare and Endemic Fish in the Upper Reaches of the Yangtze River, and the Yangtze River Ecological and Environmental Demonstration Project at Hankou Riverside Park.



Strengthening scientific research

CTG achieved China's first artificial breeding of *Pinus squamata*, a national first-class wild protected plant, and carried out sowing and tissue culture studies. It also made breakthroughs in tissue culture breeding for national second-class protected plants such as *Cycas revoluta* and *Alsophila spinulosa*. CTG advanced key technologies for selecting suitable plant species and soil substrate protection in drawdown zones, establishing a zonal ecological conservation model for the drawdown zone. A total of 17 field surveys on plant diversity were conducted, with active collection and conservation of rare and endangered species in the lower reaches of the Jinsha River.



Enhancing rare plant conservation

CTG protects 80 species of endemic and rare resource plants, bringing the cumulative total to more than 2,030 species and over 31,000 individual plants protected, and has propagated nearly 300,000 rare and unique plants.



China's First Conservation Zone for the Critically Endangered *Rhamnus utilis*

Honors Awards



The Testing Center of the Yangtze River Rare Plant Research Institute has obtained **CNAS certification**. The project "Implementing Ex-situ Conservation of Wild Fauna and Flora to Protect Biodiversity in the Yangtze River Basin" was selected as a practical case at the **Forum on Energy Transition Promoting Biodiversity Conservation during the 16th session of the Conference of the Parties**. The popular science case "The Scientific Research and Public Education Innovation Platform for Yangtze Rare Plant Conservation" was selected as a typical case of **science and technology achievement popularization by China's Ministry of Ecology and Environment in 2024**.

An aerial photograph of a rural village in Jiangxi Province, China. The landscape is a patchwork of vibrant green rice fields, some of which are flooded with water. Several clusters of modern, multi-story houses with red-tiled roofs are scattered throughout the fields. A long, elevated railway track with multiple tracks runs diagonally across the middle of the image, passing through the fields and near the village clusters. In the background, rolling hills and mountains are visible under a clear blue sky. The overall scene depicts a harmonious integration of modern infrastructure and traditional rural life.

NICE

• Depicting a Beautiful and
Harmonious Blueprint Together

Fostering Employee Growth

Ensuring Employee Rights and Interests

Equal employment

CTG strictly complies with national laws and regulations as well as those of project locations. It follows international conventions and regulations related to labor rights, insists on equal employment, firmly eliminates all forms of discrimination based on gender, region, and other factors, and prohibits child labor and forced labor. CTG implements more proactive, more open, and more effective talent policies, focusing on high-level talent introduction, efficient talent utilization, and high-quality talent cultivation, coordinating the entire talent chain of recruitment, training, and employment.



Key Performance

1,900

college graduates recruited within the year

100%

labor contract signing rate throughout the year

Labor Benefits

- CTG organized the re-election of its Employee Representative Congress and convened the First Session of the Fourth Employee Representative Congress, ensuring employees' rights to participation, expression, and supervision.
 - CTG organized employee representatives to review and study the Labor Contract Management Measures, Employee Welfare Expense Management Measures, and other systems closely related to employees' practical interests.
- CTG organized the Fifth Primary Representatives Congress of the Trade Union and elected a new trade union leadership team.
 - CTG revised the Evaluation Measures for the Standardization of Grassroots Trade Union Construction and held training sessions for trade union managers, and female managers, promoting the standardized development of grassroots trade unions.

Honors Awards



The trade union of Shanghai Investigation, Design & Research Institute was awarded the title of **Model Employee Home by the All-China Federation of Trade Unions**.

The Trade Union of the Power Generation Department of Hubei Energy Ezhou Power Generation Company was awarded the title of **Model Employee Home by the All-China Federation of Trade Unions**.

Remuneration and benefits

CTG continues to establish and improve a scientific and reasonable salary distribution management mechanism. It guides subsidiaries to standardize salary management, build a reasonable distribution order, strengthen positive incentives for urgently needed talents, and clearly establish a salary distribution orientation favoring grassroots, frontline, hard, dangerous, and tiring positions. It continuously improves the digital level of salary management, strengthens penetration monitoring of salary distribution, and continuously standardizes the income distribution order. CTG continues to deepen the reform of income distribution system, personnel management system, and labor system, improves the internal evaluation mechanism, and provides a solid institutional guarantee for accelerating the building of a more dynamic and efficient modern state-owned enterprise.

Career Development

Talent strategy upgrade

Improve the top-level design of systematic training

CTG promotes the implementation of the manager and talent competency improvement project, and carefully selects top scientific and technological talents, research backbones, and young scientific and technological talents.

Expand talent introduction channels through multiple measures

CTG seizes the opportunity of the national talent recruitment program, and continues to strengthen the introduction of high-level talents in core professions and key areas.

Improve the mechanism to smooth the promotion channel

CTG continuously consolidates the foundation of the talent work system, improves talent evaluation mechanisms such as professional title evaluation and skill level certification, and further smooths the growth sequence channel for skilled talents.

Strengthen talent cultivation

Strengthen collaboration between schools and enterprises

CTG enhances collaboration between schools and enterprises and promotes industry-education integration. It advances high-quality joint training programs for engineering master's and doctoral students, issues the Guiding Opinions on the Special Pilot Program for Joint Training of Engineering Masters and Doctors and other supporting regulations, and explores a distinctive CTG engineering talent development system.

Conduct thematic training

Focusing on accelerating high-level self-reliance in science and technology, improving compliance management and risk prevention capabilities, enhancing renewable energy production and technical management capacity, and strengthening vocational skills certification and employee upskilling, CTG organized and delivered 2 advanced training sessions approved by China's Ministry of Human Resources and Social Security, 11 key training sessions, 8 centralized rotation training sessions, and 21 business training sessions, benefiting nearly 30,000 participants.

Improve the exchange mechanism

The third batch of managers successfully participated in two-way exchanges, further strengthening cross-unit, cross-regional, and cross-business rotation mechanisms for young employees.

Recognize talent contributions

CTG selected and commended its own "Model Workers", "Red Flag Teams", and "Role Models of Harmonious Families". In addition, it won 3 national-level collective honors including the "National Workers' Pioneer", 1 individual National May 1 Labor Medal, 10 provincial or ministerial-level collective awards such as the "May 1 Labor Certificate", and 14 individual awards including provincial-level "Labor Medals".

Honors Awards



1 employee was recognized as a **National Outstanding Engineer**.

5 employees were recognized as part of the **first group of Top Scientists by SASAC**.

3 employees were awarded the title of **"Model Worker of Central SOEs"**.

Organize Labor and Skill Competitions

CTG organized labor and skill competitions for the construction of the Yangtze River Conservation Project and the construction of the Jinsha River Clean Energy Corridor, hosted the national power industry skill competition for hydroelectric power operation staff, and held the 13th Employee Skill Competition of CTG. By promoting learning and practice through competitions, it further improved employees' skill levels and fostered the continuous emergence of highly skilled talent.



Caring for Employees

Enhance employee wellbeing

CTG further advanced the CTG Wellbeing Initiative by organizing a series of health programs in key locations with a high concentration of employees, including Wuhan, Yichang, Chengdu, Beijing, Shanghai, and Kunming. Through diverse health lectures, personalized medical consultations, and comprehensive health screenings, it helped employees build healthy habits and foster a positive attitude towards wellbeing.

CTG continued to deliver flagship trade union programs such as providing care in spring, relief from the heat in summer, education aid in autumn, warmth in winter, and emergency assistance. Summer daycare services for employees' children were also made available.



Enrich employees' leisure life

- To celebrate the 75th anniversary of the founding of the People's Republic of China, CTG organized an employee choral event.
- CTG hosted various cultural and sports events, including table tennis, basketball, and tennis competitions.
- A themed reading and sharing event was held for female employees.
- CTG also organized social networking activities for young employees to help single employees build connections.
- At the Chaglla Hydropower Station in Peru, a lecture on "Exploring the Beauty of Chinese Civilization" was held as part of China-Peru cultural exchange.



Caring for retired cadres and employees

CTG provided timely care and visits to retired cadres and employees during important holidays and special occasions, such as hospitalization. It organized research and fact-finding activities for retired cadres, and continued to encourage retirees to actively offer suggestions and advice for reform and development.



Supporting Rural Revitalization

CTG remains committed to serving the national rural revitalization strategy. It actively carries out targeted assistance, paired-up assistance, and resettlement support for reservoir migrants, helping assisted regions consolidate poverty alleviation gains and achieve effective alignment with rural revitalization. In 2024, CTG released its first dedicated report on rural revitalization - CTG White Paper on Rural Revitalization Assistance (2021-2023) - which systematically reviews the practices, outcomes, and experience gained in this area.

Targeted Assistance

Wushan County and Fengjie County in Chongqing Municipality; Wan'an County in Jiangxi Province; Bairin Left Banner in Inner Mongolia Autonomous Region; and Yangxin County in Hubei Province.

Reservoir Migrant Assistance

Three Gorges Reservoir area and Jinsha River reservoir area.

Carrying out targeted assistance

CTG regards targeted assistance as a top priority, focusing on the "Five Major Revitalizations" - industry, talent, culture, ecology, and organization - to comprehensively support the rural revitalization of targeted assistance areas.

Honors Awards

Received a "Good" rating in the central SOE's targeted assistance assessment for seven consecutive years.

Support the revitalization of businesses

CTG planned and promoted industrial revitalization from the perspective of the industrial chain, focusing on strengthening, supplementing, and extending the chain while exploring technological and management innovations to empower industrial development. Tailored to local conditions, CTG implemented a series of distinctive and advantageous industrial projects with strong driving effects and sustainable development potential, including the full-chain application of citrus planting technology transfer and transformation in Wushan County, the construction of a new high-tech smart cold storage facility in Fengjie County, the standardized, scaled, and branded development of the selenium-rich industry in Wan'an County, the development of facility agriculture in Bairin Left Banner, and Tunniao (a local poultry breed) farming in Yangxin County - achieving a "one county, one specialty" industrial assistance model. In 2024, CTG implemented 37 industrial assistance projects, attracted 600 million yuan in investment, built 13 assistance workshops, and facilitated the transfer and employment of 730 people.

CTG also continued to strengthen consumption assistance by successfully organizing activities such as the Consumption Assistance for Agriculture, Gathering Strength for Revitalization event under the Central SOEs Consumption Support Initiative for Rural Revitalization and CTG Second Consumption Assistance Week, effectively expanding sales channels for agricultural products in assisted areas.



Scan the QR code to learn more



CCTV's News Broadcast on the Consumption Assistance for Agriculture, Gathering Strength for Revitalization Event

Tailored support to enhance the Wushan plum industry chain

To support the development of Wushan Plum brand, in 2024, CTG assisted Wushan County, Chongqing Municipality, in building the Wushan plum germplasm resource base, a standardized demonstration garden base, and cold storage facilities within the characteristic industrial park. CTG also facilitated the introduction of a Wushan plum preserved fruit processing plant. By leveraging the advantages of the CTG Town Project, the processing plant was equipped with photovoltaic technology. CTG explored the use of this technology to support the development of the local plum industry, effectively boosting local employment and increasing residents' income.





Key Performance

73

Targeted assistance projects implemented throughout the year

348

million yuan

Funds invested throughout the year

34

Visits to targeted assistance counties for research and guidance



Strengthening brand building to support the development of the selenium-rich industry in Wan'an County

CTG leveraged Wan'an County's local resource endowments, taking selenium-enriched rice and selenium oranges as breakthrough products to develop industries that benefit enterprises, village collectives, and farmers. The county's selenium-rich industry has shown a sound development trend with expanding scale, diversified business types, and growing brand influence, further boosting the recognition and reputation of the Wan'an Selenium-Rich brand.

Selenium-rich rice in Wan'an County, Jiangxi Province

Supporting Fengjie County in developing a specialized breeding industry through scientific approaches

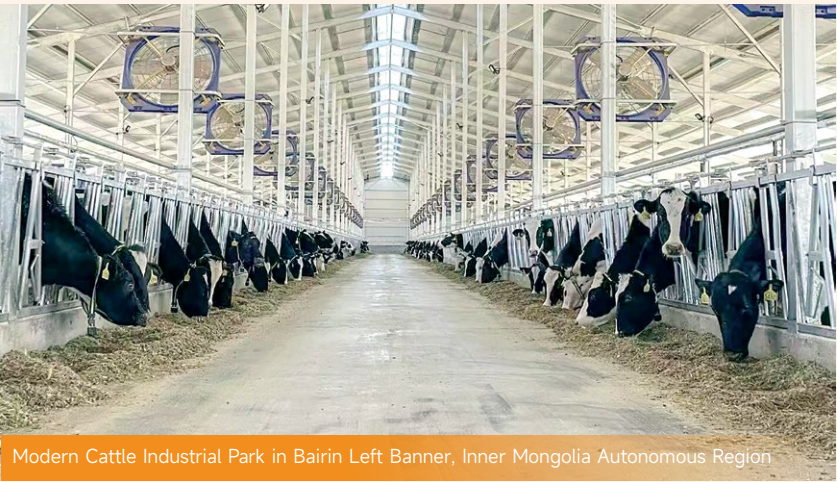
Leveraging Fengjie County's unique natural environment and abundant labor resources, CTG supported the local development of the meat rabbit breeding industry. It developed and implemented a digital management platform to promote smart breeding practices. This facilitated the upgrading of the entire industrial chain, covering breeding, processing, and sales. These efforts enhanced breed quality, scale, standardization, industrialization, and ecological sustainability in meat rabbit production, contributing significantly to local economic and social development.



Smart rabbit breeding in Fengjie County, Chongqing Municipality

Supporting the construction of the modern cattle industrial park in Bairin Left Banner to promote local income growth

CTG focuses on the leading industries of Bairin Left Banner, supporting the construction of the Modern Cattle Industry Integrated Development Demonstration Park. The park integrates embryo transfer, quality breeding, large-scale farming, forage cultivation and trading, feed production, live animal trading, slaughtering and processing, dairy product processing, and cultural tourism into a technology demonstration zone for the modern cattle industry. This initiative promotes the cattle industry's development in a large-scale, standardized, modern, intelligent, and ecological manner. It also explores efficient, green, and sustainable models for agricultural and pastoral development, driving the high-quality development of the cattle industry throughout the banner.



Modern Cattle Industrial Park in Bairin Left Banner, Inner Mongolia Autonomous Region

Actively supporting the full industry chain construction of the "Tunniao" in Yangxin County

Yangxin Tunniao (a local poultry breed) is a pillar industry in Yangxin County. In 2024, CTG supported the development of the Yangxin Tunniao standardized breeding base, using a "leading enterprise + base + cooperative + farmer" model. The initiative is market-oriented and relies on advanced technologies, innovating and optimizing an integrated industry chain covering conservation, expansion, breeding, processing, and marketing. These efforts have accelerated the development of this key industry and enhanced the Yangxin Tunniao brand in the market.



Tunniao Breeding Industry Base in Yangxin County, Hubei Province

Support the revitalization of talent

CTG carefully designed talent assistance plans for the designated counties, dispatching outstanding managers to serve in temporary positions and village posts to provide frontline support. CTG assisted China's Ministry of Agriculture and Rural Affairs in organizing a training program for central agencies designated assistance work in Fengjie County, Chongqing Municipality. 100 rural revitalization leaders were invited to Wushan County for training in e-commerce operations and management. Skilled talents were cultivated for the designated assistance areas through diverse channels and approaches. Throughout the year, a total of 5,023 rural grassroots managers, 2,055 rural revitalization leaders, and 9,517 professional and technical personnel received training, strengthening the comprehensive revitalization of the assisted rural areas.

Empowering rural talent revitalization through e-commerce training

On July 22, 2024, CTG launched the 2024 E-commerce Consumption Assistance Operation and Management Capacity Training Program in Wushan County. Through a structured curriculum, the program enhanced the professional skills of e-commerce practitioners in assisted regions, energized digital economic growth, and provided sustainable momentum for the revitalization of specialty industries.

Support the revitalization of culture

Building on local cultural resources, CTG implemented the Yangtze River National Cultural Park and the Longgupo Million-Year Human Culture Project in Wushan County, carried out the rural revitalization cultural promotion project in Bairin Left Banner, and advanced the rural cultural tourism enhancement project in Wan'an County. These efforts continuously generated new momentum for cultural revitalization in the assisted areas.

Promoting culture to enhance local identity

To build on historical heritage, strengthen cultural confidence, and preserve and promote Yangtze River culture to support cultural revitalization, in 2024, CTG implemented the Yangtze River National Cultural Park and the Longgupo Million-Year Human Culture Project in Wushan County. Leveraging the excavation findings, the project improved and enhanced the Longgupo site exhibition, promoting the thriving development of local cultural tourism.



Longgupo Million-Year Human Culture Promotion Project in Wushan County, Chongqing Municipality

Support the revitalization of ecosystems

Focusing on addressing shortcomings in rural living environments, CTG continuously improved the rural domestic waste collection and transportation system in Fengjie County. Toilet renovations were carried out for 435 households across 12 townships in Wushan County. Infrastructure upgrades were made at eight rural tourism sites in Wan'an County. The full-film double-ridge furrow technology was promoted in Bairin Left Banner to prevent land degradation. A living environment improvement project was implemented in nine villages in Yangxin County. These efforts effectively improved local mountain greening and the overall living environment.

Supporting rural tourism site upgrades in Wan'an County

Promoting the deep integration of local culture and tourism to build livable, business-friendly, and attractive villages. In 2024, CTG carried out a rural tourism site upgrade and renovation project in Wan'an County, enhancing infrastructure and living conditions across eight villages. This project effectively improved the ecological environment, enhanced the overall image of rural tourism, and accelerated the development of tourism throughout Wan'an County.



CTG Town Project in Luotang Township, Wan'an County, Jiangxi Province

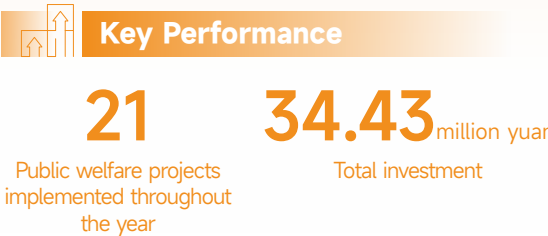
Supporting the Reservoir Areas

CTG remains committed to a people-centered approach and has thoroughly practiced its hydropower development philosophy: building a power station to stimulate the local economy, improve the local environment and benefit resettled residents. By establishing a three-pronged support system focusing on strengthening education as the foundation, empowering local industries, and improving livelihoods, CTG actively provides sustained support for reservoir area residents. This approach has promoted steady prosperity and sustainable socio-economic development in these areas and has explored a new path for hydropower enterprises to advance comprehensive rural revitalization in reservoir area.

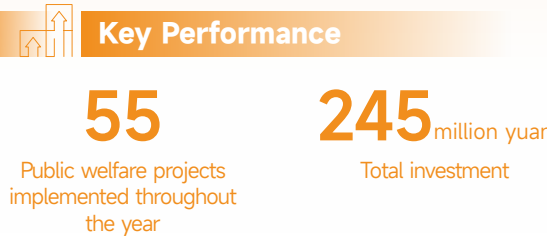
Three Gorges Reservoir Area

Jinsha River Reservoir Area

CTG continued to implement support projects focusing on the follow-up development of relocated communities in the Three Gorges reservoir and dam area, helping promote local stability and development. In Wufeng County's Hanmachi Village in Yichang City, a rural reception hall with distinctive Tujia ethnic features, an ancient tea road exhibition area, and a tea tourism service station were built, exploring an integrated development model that combines tea culture and tourism to promote mutual growth. In Sandouping Town, Yichang City, a road widening project was carried out to completely resolve residents' travel difficulties while boosting local agricultural product sales, making it a well-received project among local communities. In Taipingxi Town, Yichang City, CTG renovated the comprehensive building of the rural welfare home, further improving the capacity of support services for people in extreme difficulty.



Focusing on the development needs of relocated communities in the lower reaches of the Jinsha River, CTG has continued to support local education and industrial growth. In Liangshan Yi Autonomous Prefecture, Sichuan Province, CTG carried out Pre-School Mandarin Language Learning Program to help Yi children aged 3 to 6 learn Mandarin before entering school. It also funded the construction of CTG-Leibo Middle School, helping junior high school graduates in Leibo County and surrounding areas access better high school education. A total of 45 "CTG Inspirational Class" were opened in the Jinsha River reservoir area, cultivating many local top scorers in high school and college entrance exams, with admission rates for senior high schools and universities repeatedly reaching record highs. CTG has also continued to strengthen the "CTG Seed Fund" project by increasing funding for 18 model migrant villages and communities in Yibin City, Sichuan Province, and newly covering four additional villages (communities) with large migrant populations, steadily promoting employment and income growth in the reservoir area.



The road to prosperity in the reservoir area

The G348 Yichang City-Three Gorges Dam Highway is the only national highway connecting Yichang's urban area with the dam area. To improve traffic conditions along the G348, CTG supported local efforts to upgrade and expand highway infrastructure, including the construction and renovation of parking areas and service facilities along the route. The project has effectively improved the overall tourism environment in the region, increased transportation efficiency, promoted the development of tourism industries along the highway, enhanced Yichang's reputation.



G348 Highway Project

Supporting Hanmachi Village in building a tea-tourism integrated complex

Hanmachi Village in Wufeng Tujia Autonomous County, Hubei Province, sits at an average altitude of 800 meters and enjoys a warm, humid climate and loose, fertile soil, making it ideal for tea cultivation. Leveraging local characteristic resources, CTG has helped the village develop a tea-tourism integrated complex. The project completed infrastructure such as a handmade tea processing experience corridor, ecological walking trails through the tea gardens, leisure pavilions, and ecological slope protection along riverbanks. This initiative promotes new ways for visitors to experience the local tea industry, including touring tea gardens, picking fresh tea leaves, and hand-frying tea.

Tea-Tourism Integrated Complex Project in Hanmachi Village, Wufeng, Hubei Province

"CTG Education Assistance" supports students in the reservoir area to realize their dreams

"CTG Education Assistance" is a key branded support initiative launched by CTG for the Jinsha River Reservoir area. It consists of four sub-projects: the "CTG Inspirational Class", the "CTG Student Aid Program", the "CTG Candlelight Action", and the "CTG Class-to-Class Connection". The initiative aims to provide quality education for children of resettled families by improving both hardware and software conditions of schools in the reservoir area, promoting comprehensive enhancement of education quality, and supplying talent support for the sustainable economic and social development of the reservoir area.

In 2024, students from the "CTG Inspirational Class" across multiple regions achieved outstanding results in their middle and high school entrance examinations. Notably, two students from the "CTG Inspirational Class" at Luquan Yi and Miao Autonomous County No. 1 Middle School in Kunming, Yunnan Province, were both admitted to Peking University. This is the first time in Luquan County's history that two students were admitted simultaneously to Peking University, exemplifying the recent high-quality development of education in the reservoir area.



Leibo Three Gorges Middle School, Liangshan Prefecture, Sichuan Province, assisted by CTG

Participating in Public Welfare

CTG actively engages in public welfare activities including educational assistance, medical aid, employment support, and disaster relief, striving to contribute to the improvement of people's well-being.

"Preschool Putonghua Learning" project supports Yi children's development in Sichuan

In 2024, CTG partnered with the China Rural Development Volunteer Service Promotion Association to launch the "Preschool Putonghua Learning" initiative for Yi children in the Daliangshan and Xiaoliangshan regions of Sichuan Province. The project engaged professional educational institutions as technical support providers to develop teaching methods and learning materials, deliver tutor training and teaching guidance, and create immersive language environments. Using child-friendly, engaging approaches, the initiative focused on helping children "understand, speak, dare to speak, and use" Putonghua. The project supported around 100,000 Yi children aged 3 to 6 in overcoming language barriers and cultivating good habits such as hygiene, courtesy, and a love of learning.



Mandarin Teaching

"CTG-Sponsored Kids' Trip" Public Welfare Study Project:

In 2024, CTG conducted two sessions of the "CTG Kids' Trip" public welfare study activity, each lasting five days. Over 500 primary and secondary school students from areas targeted for assistance and support by CTG visited the Three Gorges Project, a national mega-project, to receive on-site patriotic education and popular science knowledge and witness the great achievements of national development.

"National Excellence Award for College Graduates Serving at the Grassroots Level":

In partnership with the Higher Education Department of the Ministry of Education and the China Education Development Foundation, this project encourages college graduates to take root at the grassroots level and contribute to rural revitalization.

"CTG Cabins of Hope":

In partnership with the Beijing One Heart Sphere Charity Foundation, this project established Cabins of Hope in Beijing and Wuhan, offering free temporary accommodation for patients with serious illnesses and their families, helping them feel cared for and supported by society.

"Bo'ai Public Health Support Program ":

Implemented in collaboration with the Chinese Red Cross Foundation, this program set up 16 Bo'ai Health e-Stations in Huili City and Yanbian County, Sichuan Province, helping to improve medical equipment, establish remote diagnosis and treatment systems, and build digital information management platforms.

"CTG Brightness Action":

In collaboration with the China Rural Development Volunteer Service Promotion Association, this initiative provides free cataract treatment for financially disadvantaged patients in the Jinsha River reservoir area, helping to ease their medical cost burden.

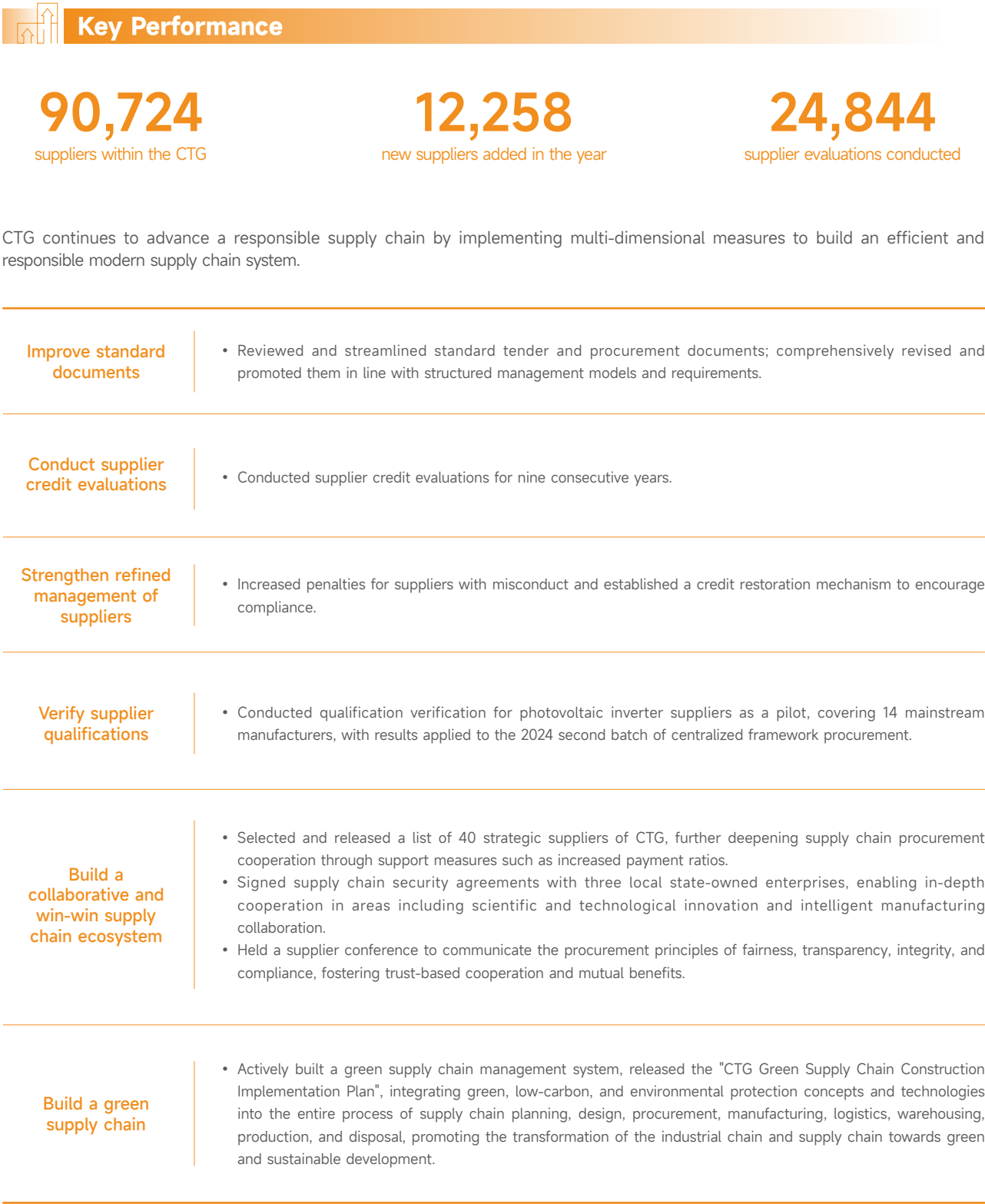
"CTG Love Assistance":

In the Xiangjiaba Dam reservoir area, this project provides targeted assistance for resettled population and their children under the age of 18 who face special difficulties due to serious illness or natural disasters.



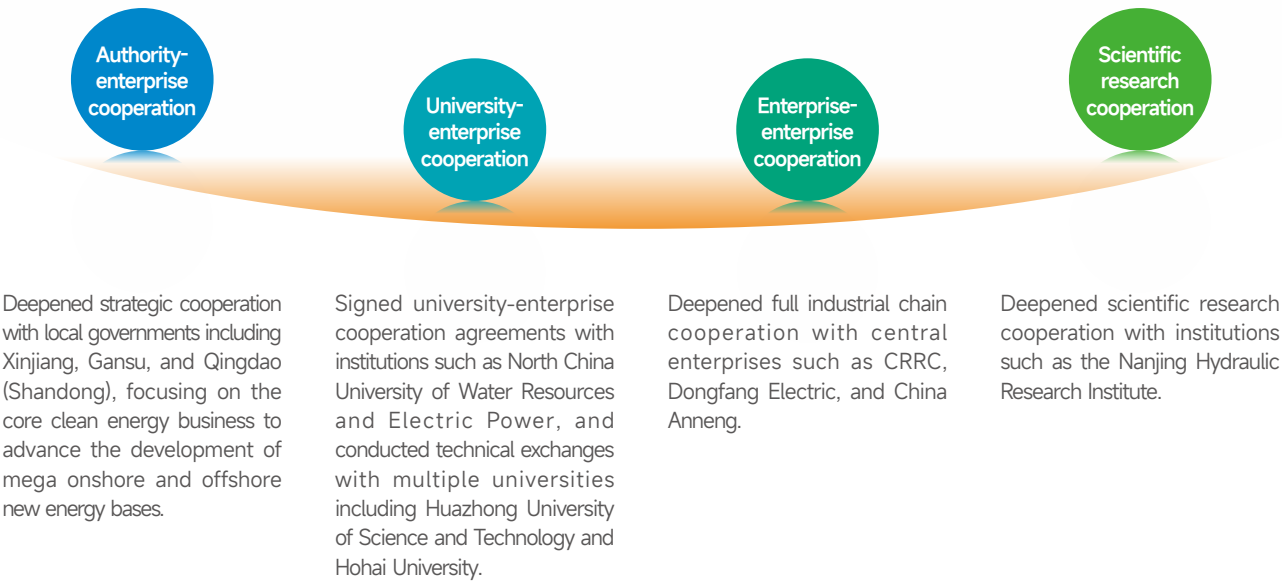
2024 "CTG-Sponsored Kids' Trip" Public Welfare Study Activity

Building a Responsible Supply Chain



Focus on Cooperation and Win-Win Outcomes

CTG is committed to comprehensive and in-depth cooperation with government departments, leading enterprises, universities, and research institutes. By forging strong alliances and leveraging complementary strengths, CTG continuously expands common interests, builds exemplary models of cooperation, and jointly pursues high-quality development.



Fulfilling Overseas Social Responsibilities

CTG actively participates in the Belt and Road Initiative, emphasizes localized operations, fulfills social responsibilities overseas, initiates public welfare and charitable activities, strives to be a responsible global corporate citizen, and contributes its strength to advancing the building of a community with a shared future for mankind.

Improving Local Livelihoods

Promote cultural integration

- The "Ba'Tie Girl", a flagship film sponsored by CTG under the Belt and Road Initiative, premiered in China, conveying the friendship between China and Pakistan to a broad audience and promoting cross-cultural integration. The film received the national-level "China-Pakistan Friendship Award" and "Outstanding Contribution to Pakistani Culture Award" in Pakistan, as well as the "Special Jury Award" at the 10th Silk Road International Film Festival.
- CTG held the "Integration Cup" football friendly match in Peru, actively promoting cultural exchange and integration between China and Peru, and establishing strong friendships and good cooperative relationships with local enterprises.
- CTG continues to carry out the themed activity "Chinese Culture Going Global". A series of "Mid-Autumn Festival" events were held in Spain, Pakistan, Egypt, Brazil, Colombia, and other countries, enabling overseas audiences to further experience the charm of traditional Chinese culture.
- CTG organized multiple "Open Day" events, inviting faculty and students from various universities to visit CTG's office in Madrid, Spain; the Daylight photovoltaic project in Spain; the Kinich photovoltaic project in Mexico; the Baranoa I photovoltaic project in Colombia; and the Karot Hydropower Station in Pakistan. These visits showcased CTG's corporate culture and expertise in the energy sector, encouraging more outstanding young people to pursue careers in clean energy.
- CTG Brasil supported the staging of the play "Origin" in Brazil, deepening cultural exchange and mutual learning between China and Brazil.



Promotional poster of the film "Ba'Tie Girl"



The Drama "Origin" Performance in Brazil

Improve Public Infrastructure

- In the Chaglla region of Peru, CTG helped 11 villages open up and repair over 20 kilometers of roads throughout the year.
- Built a new pelota court at Jorge Chávez School in Lima, benefiting more than 1,200 primary and secondary school students.
- At Luz Del Sur, an electric vehicle fleet was established along with supporting charging stations. Since the first batch of electric vehicles was put into use in May 2023, the company has built the largest electric vehicle fleet in Peru, with a total of 99 new energy vehicles.



Jorge Chávez School in Lima, Peru

Promoting local talent development

- The Chaglla Hydropower Station in Peru has organized multiple English speech competitions, English improvement classes, and introductory Chinese language courses to help cultivate local technical talent and build a talent pipeline that supports the sustainable development of the local economy.



Chaglla Skills Training Session, Peru

Deepening International Communication and Cooperation

CTG actively fulfills its responsibilities as a central SOE by coordinating with relevant national ministries and commissions to organize supporting activities for high-level visits, advancing in-depth cooperation with leading international industry organizations and media, expanding its international communication influence, and actively participating in major international events to help enhance its global image.

- CTG participated in multiple events at the 16th Meeting of the Parties to the Convention on Biological Diversity (CBD COP16). Three cases were selected for inclusion in the practice report on promoting biodiversity conservation through energy transition: the Biodiversity Center of the National Engineering Research Center's case titled "Multiple Measures to Protect Biodiversity in the Yangtze River Basin", Yangtze Power's case "Peru Vigorously Promotes the Development of Electric Vehicles to Actively Promote Carbon Reduction", and CTG's case "China Three Gorges Corporation (Brazil) Company Protects Biodiversity in Brazil". These cases showcase CTG's active efforts in biodiversity conservation and promotion of carbon reduction and green development both domestically and internationally.
- CTG hosted the "Green Energy Innovation and Development" sub-forum at the Third Belt and Road Energy Ministerial Conference, where stakeholders held in-depth discussions on green energy, new quality productive forces, and international cooperation, promoting joint efforts by Belt and Road countries to build an open, transparent, and efficient international green energy market.
- Co-organized the seminar "Weathering Storms Together, Building a China-Latin America Community of Shared Future" with the China International Publishing Group, deepening friendly exchanges between China and Latin America, and gathering strength for the construction of a China-Latin America Community of Shared Future.



The Seminar of "Weathering Storms Together, Building a China-Latin America Community with a Shared Future"

- CTG co-organized the Global South Media and Think Tank Forum as a side event of the G20 Summit.
- CTG co-organized the 3rd Asia International Water Week and took part in the exhibition; co-organized the 24th IAHR-APD Congress; actively participated in Global Hydropower Day activities, showcasing vivid practices and notable results in water resource management, water environment governance, energy transition, and biodiversity conservation.
- CTG held discussions and extensive exchanges with the high-level delegation of EDP Portugal, the Chair of the Board of the International Hydropower Association, the Secretary General and CEO of the World Energy Council, GIC's Chief Investment Officer for Infrastructure in Singapore, and senior officials of Spain's People's Party.

Social Responsibility Management

CTG firmly upholds the concept of a "Holistic Responsibility Vision", consistently integrating the fulfillment of corporate social responsibility with the achievement of its strategic mission. CTG ensures that the concepts and requirements of social responsibility are comprehensively embedded in its development strategy, major decisions, corporate culture, and brand building. By continuously improving its social responsibility governance framework, innovating responsibility management practices, and developing new approaches for implementing responsibility initiatives, CTG strives to set an industry benchmark in fulfilling corporate social responsibilities. These efforts aim to continuously strengthen core functions, enhance core competitiveness, and accelerate the building of a world-class enterprise.

Operation Mechanism

Strengthening Organizational Leadership. CTG has further improved its social responsibility organizational management system, following the framework of "overall leadership by the Leadership Group, top-level promotion by principal leaders, coordination and supervision by leaders in charge, overall planning and coordination by dedicated departments, and implementation by all departments and affiliated units according to the division of responsibilities". This structure reinforces an integrated, unified approach to social responsibility management across the entire Group. In 2024, CTG convened nine high-level meetings, including Leadership Group meetings, Board meetings, special meetings chaired by the Chairman, and President executive meetings, to review and deploy work related to social responsibility (including rural revitalization). Principal leaders of CTG also carried out field visits and research in all five designated targeted assistance counties (or banners), ensuring full coverage.

Improve the management system. CTG revised the Social Responsibility Work Management System, the Social Responsibility Project Management Measures, and other related management policies, continuously enhancing the scientific and standardized management level of its social responsibility efforts. The responsibility management information system has been optimized and upgraded to improve management efficiency and accuracy.

Strengthen capacity building. CTG organized dedicated training sessions on social responsibility and ESG, inviting authoritative experts in these fields to deliver lectures and share expertise, thereby enhancing the professional capabilities and competencies of its responsible personnel. CTG also actively participated in the development of ESG-related standards, such as the ESG Information Disclosure Guidelines for Power Enterprises and the China Enterprise Sustainability Reporting Guide (CASS-ESG 6.0 – Hydropower Industry Guidelines).

Strengthen communication. CTG strengthened communication with stakeholders and innovated its communication channels, transforming its social responsibility practices into tangible brand value and telling the "CTG story" effectively to a broader audience.

- Deepened the "1+N+X" release mechanism by innovatively hosting a series of "1+N+X" online social responsibility launch events, publishing the CTG 2023 Sustainability Report, Biodiversity Conservation Report, the Rural Revitalization White Paper, as well as the 2023 ESG Reports of three listed companies and CTGI.
- Organized the selection and recognition of outstanding social responsibility cases and short videos within CTG for the third consecutive year.
- Actively submitted exemplary responsibility practices and highlights to supervisory authorities such as the SASAC. A total of 25 cases were selected for inclusion in the Research Report on Corporate Social Responsibility of Central Enterprises and the Bluebook on Supporting Rural Revitalization by Central State-owned Enterprises, earning recognition as Outstanding Cases (Top Ten ESG Cases). One case was published in the Special Issue on Central Enterprises' Assistance and Support by SASAC, and another was featured in the ESG Cloud Relay (Global Dissemination of Central SOE ESG Best Practices), jointly organized by SASAC and the China International Communications Group.



CTG 2023 "1+N" Series Reports

Communication and Engagement

Ensure smooth stakeholder communication

Focus on identifying core stakeholders and their key expectations, promptly addressing stakeholders' concerns in practice, and continuously enriching communication channels and platforms. Fully guarantee stakeholders' rights to be informed, to participate, and to supervise, thereby promoting ongoing improvement in social responsibility management and practices and maximizing the comprehensive value for stakeholders.

Stakeholders	Key Expectations	Communication Activities
Investors	◇ Preservation and appreciation of assets ◇ Supervision and evaluation ◇ Compliance management	◇ Publicly released annual Social Responsibility Report/Sustainability Report, Environmental Protection Annual Report, Annual Financial Report, and subsidiary Social Responsibility/ESG reports. ◇ Continuously improved and refined the compliance management system.
resettled population of reservoir area	◇ Promotion of sustainable development for resettled population	◇ Consistently provided unconditional financial support to ensure stable and prosperous livelihoods for resettled population in the Three Gorges and Jinsha River reservoir areas.
Communities	◇ Charity and public welfare ◇ Promotion of economic and social development	◇ Continued to carry out targeted assistance, and reservoir area assistance ◇ Released the first White Paper on Supporting Rural Revitalization.
Employees	◇ Protection of labor rights ◇ Compensation and benefits ◇ Career development	◇ Regularly held employee representative meetings. ◇ Established a reasonable salary incentive and salary growth mechanism. ◇ Conducted training activities to support staff development.
Clients	◇ Collaborative development ◇ Win-Win cooperation ◇ Safe and reliable energy supply	◇ Achieved a total power generation of 4574 TWh in 2024. ◇ Ensured safe and stable power supply, successfully fulfilling multiple rounds of supply guarantee tasks for the Two Sessions, China International Import Expo, meeting peak load demands in winter and summer, and the 75th anniversary of the founding of the People's Republic of China.
Environment	◇ Ecological protection ◇ Energy conservation and emission reduction ◇ Tackling Climate Change	◇ Carried out Chinese sturgeon breeding and release activities. ◇ Prepared the 20th Annual Report on Environmental Protection, objectively reflecting CTG's environmental performance and truthfully, comprehensively addressing stakeholder concerns.
Partners	◇ Fair operation ◇ Responsible procurement ◇ Win-Win cooperation	◇ Conducted supplier credit evaluations for nine consecutive years. ◇ Improved and standardized the procurement system. ◇ Strengthened external cooperation and communication.
Provinces and cities along the Yangtze River	◇ Flood control and drought resistance ◇ Improved navigation	◇ Fully leveraged the comprehensive benefits of cascade hydropower complex in flood control, navigation, power generation, water replenishment, and ecology, serving the high-quality development of the Yangtze River Economic Belt.
Media	◇ Transparent operation ◇ Information disclosure	◇ Ranked 27th in the 2024 Central Enterprises New Media Index. ◇ Covered 725 times by China's three major mainstream media outlets in 2024 (People's Daily 238 times, Xinhua News Agency 208 times, CCTV 279 times), including 25 reports on CCTV's Xinwen Lianbo (News Broadcast) (6 as headlines).

HonorsAwards

CTG was selected for the third consecutive year in the "Pioneer 30 Index of Responsibility Management for Central SOEs" by SASAC.

CTG was awarded the "Exemplary Responsibility Award" at the 2024 Yicai· China Corporate Social Responsibility Ranking.

CYPC received multiple honors including: China ESG Listed Companies Pioneer 100; ESG Best Brand Value Award; ESG Annual Communication Influence Pioneer; and "2024 ESG Whale and Bull Award — ESG Carbon Peaking and Carbon Neutrality Pioneer.

CTGI was listed on the 2024 Fortune China ESG Impact List.

China Three Gorges Renewables was honored as: Energy Magazine 2023 ESG Zero Carbon Leading Enterprise; The 18th Main Board Listed Companies ESG Top 100 Award.

Hubei Energy was included in: 2024 China Energy Listed Companies Sustainable Development (ESG) Top 100; 2024 Wind China Listed Companies ESG Best Practice Top 100.

Brand Building

CTG has been steadily advancing the brand leadership initiative, prioritizing the building of its social responsibility brand, and continuously deepening the integration of social responsibility management with brand building. In the field of public welfare, CTG has developed a series of signature social responsibility projects, including the CTG-Sponsored Kids' Trip, CTG Class-to-Class Connection, CTG Inspirational Class, CTG Candlelight Action, CTG Student Aid Program, CTG Seed Fund, CTG Cabins of Hope, CTG Hearing Assistance Initiative, CTG Brightness Action, and CTG Town Project. These efforts have established CTG's image as a responsible and committed enterprise.

HonorsAwards

CTG was shortlisted among the Top 30 Central Enterprises in Brand Building Capability for 2023.

CTG received the "Annual Leading Brand in Social Responsibility" at the 2024 Xinhua Net Rural Revitalization Empowerment Program.

CTG's five brand achievements were selected as part of the 2024 China Enterprise Brand Innovation Achievements.

CTG was recognized as one of the First Batch of Outstanding Achievements in the Central Enterprise Brand Leadership Initiative.

CTG Public Welfare Foundation was rated as a 5A-level Social Organization.



CTG Public Welfare Foundation was rated as a 5A-level Social Organization

Outlook

The year 2025 is the final year for implementing the 14th Five-Year Plan and the year of planning for the 15th Five-Year Plan. CTG will coordinate the fulfillment of primary missions and value creation, actively practice the "Holistic Responsibility Vision", focus on the "Five Dimensions" to build a benchmark for sustainable development, continuously enhance core functions, improve core competitiveness, and strive to be a pioneer in fulfilling the responsibilities of central state-owned enterprises in the new era.

Strengthen the defense line for a tranquil Yangtze River. CTG will focus on the primary responsibility of safeguarding the river's stability and will adhere to the principle of simultaneous flood and drought prevention and control. Based on a framework of broad time and space, comprehensive systems, strong responsibility, and robust safety, CTG will leverage the digital twin Three Gorges project, the hydrological monitoring and forecasting system, and the scientific dispatch system to build a modern river basin governance and protection system. CTG will fully ensure safety in flood control, water supply, navigation, energy, ecology, and other key areas, continuously strengthening the Yangtze River's role as a secure "Golden Waterway".

Paint a beautiful ecological picture. CTG will adhere to ecological priority and green development, focus on promoting the realization of ecological product value, replicate and promote the "Smart Urban Water Manager" model, advance the reform of the pipeline pricing mechanism, make resolute efforts in addressing pipeline network challenges, and create a model for plant-pipeline-river-lake-shore integrated wastewater treatment system. CTG will actively explore effective paths for the integrated development of clean energy and ecological environmental protection, accelerate the cultivation of new circular economy development models, and strive to forge a new development path that is replicable, scalable, and sustainable.

Forge the engine of a strong energy country. CTG will thoroughly implement the new energy security strategy of "Four Revolutions and One Cooperation" and actively participate in building a new energy system, and will consolidate and expand the peak shaving, frequency regulation, and support functions of mega hydropower within the new power system. It will accelerate the construction of large-scale bases in Gobi and other desert areas as well as the concentrated large-scale development of offshore wind farm clusters. CTG will steadily and orderly deploy pumped storage projects, actively explore emerging sectors such as advanced energy storage and hydrogen energy, promote the digitalization and intelligent transformation of power generation, and continuously enhance the capacity for diversified, clean, safe, and resilient energy supply.

Support the development of a strong science and technology nation. CTG will focus on supporting high-level scientific and technological self-reliance, adhere to the four priorities: global scientific frontiers, national economic development, major national needs, and people's health and safety, and fully leverage its role as a main driver of technological innovation, to accelerate breakthroughs in key core technologies. By relying on national-level scientific and technological innovation platforms, CTG will promote collaborative innovation among industry, academia, and research institutions, facilitate the transformation of scientific and technological achievements into real productive forces, and provide technical support for the industry's green and low-carbon transition. CTG will actively invest in forward-looking basic research and cutting-edge technologies, develop and expand strategic emerging industries, accelerate the cultivation of new high-quality productive forces, and continuously shape new development momentum and competitive advantages.

Jointly create a better future life. CTG will adhere to the people-centered development philosophy, foster a deep commitment to serving the people, support rural revitalization, and ensure people's well-being. CTG will continuously play a leading role in fulfilling social responsibilities to improve people's well-being. It will actively participate in the Belt and Road Initiative, enhance its overseas responsibility performance, support local economic and social development, and steadily raise its brand awareness and reputation abroad.

Appendix

Key Performance Index

Environmental Performance

Value Creation

Key Indicators	2022	2023	2024
Comprehensive energy consumption per thousand yuan of output value (comparable price) ¹ (tonnes of standard coal per thousand yuan)	0.489	0.489	0.446
Total investment in ecological environmental protection ² (million yuan)	29600	21320	9870
Percentage of new projects where EIAs and SIAs have been carried out	100	100	100
Emission reduction from domestic clean energy (equivalent to CO ₂ emission reduction, thousand tonnes CO ₂ equivalent)	262030	279100	321590
Emission reduction benefits of domestic clean energy (equivalent to saving standard coal, thousand tonnes)	98510	104930	118140
CO ₂ emissions per thousand yuan of output value (at comparable prices) (tonnes of CO ₂ equivalent per thousand yuan)	17.782	14.961	16.092

Note: 1. Statistical data have changed due to adjustments in statistical scope.
2. Includes investment in the well-coordinated conservation of the Yangtze River.

Social Performance

Compliance

Key Indicators	2022	2023	2024
Percentage of internal policies and procedures subject to legal review (%)	100	100	100
Percentage of corporate economic contracts subject to legal review (%)	100	100	100
Percentage of Major Economic Decisions Subject to Legal Review (%)	100	100	100
Investment in legal and compliance training at CTG headquarters (thousand yuan)	—	700	650
Number of compliance training sessions at CTG headquarters	11	12	15

Employee Responsibility

Key Indicators	2022	2023	2024
Number of active employees (persons)	30163	34787	36103
Proportion of female employees (%)	—	—	24.83
Proportion of female managers (%)	—	—	15.63
Number of ethnic minority employees (persons)	—	—	2534
Social insurance coverage rate (%)	100	100	100
Union membership rate (%)	100	100	100
Percentage of formal labor contracts (%)	100	100	100
Proposal completion rate and satisfaction rate of the employee representative congress (%)	100	100	100
Percentage of employees participating in training (%)	100	100	100
Supplementary medical insurance coverage (%)	100	100	100
Employee satisfaction rate (%)	100	100	100
Health record coverage rate (%)	100	100	100

Safety Production

Key Indicators	2022	2023	2024
Number of emergency plans formulated and revised	4022	3089	2145
Number of emergency drills conducted	2544	5212	4784
Number of safety training participants (persons)	211410	199337	293927
Work safety input (million yuan)	1264	1759	1751
Number of power safety accidents (cases)	0	0	0
Number of major equipment accidents (occurrences)	0	0	0
Number of employee casualties (persons)	0	0	0
Work-related injury rate (%)	0	0	0
Number of workdays lost due to work-related injury (days)	0	0	0
Occupational disease rate (%)	0	0	0

Community Engagement

Key Indicators	2022	2023	2024
Amount of free targeted support (million yuan)	400	386	348
Number of volunteer service teams (units)	77	111	94
Number of volunteer service bases (units)	187	187	187
Number of registered volunteers (persons)	1826	3539	4709

Composite Indicators

Key Indicators	2022	2023	2024
Total flood storage capacity of cascade reservoirs (million cubic meters)	0	0	13450
Total days of water replenishment for the middle and lower reaches of the Yangtze River by the Three Gorges Reservoir during the dry season (days)	156	51	120
Amount of water replenishment for the middle and lower reaches of the Yangtze River by the Three Gorges Reservoir during the dry season (million cubic meters)	21780	6390	20481
Actual freight volume through the Three Gorges Ship Lock (million tonnes)	156	168	153

Governance Performance

Value Creation

Key Indicators	2022	2023	2024
Total tax payment (million yuan)	28765	29914	34968
Total assets (million yuan)	1268780	1393430	1473990
Operating income (million yuan)	146260	152290	162520
Year-on-year growth rate of operating income (%)	5.7	4.1	6.7
Total profit (million yuan)	51050	57000	58350
After-tax net profit (million yuan)	42560	43850	46520
Liability-to-asset ratio (%)	53.5	55.8	56.5
Return on equity (%)	7.4	7.3	7.4
Operating cash ratio (%)	44.9	44.2	43.6
Overall labor productivity [thousand yuan per (person x year)]	3082	3573	3610

Scientific and Technological Innovation

Key Indicators	2022	2023	2024
R&D Investment (million yuan)	3102	4665	4985
R&D investment intensity (%)	2.12	3.06	3.06
Number of R&D Personnel (persons)	3661	5415	6245
Number of patent applications	1644	5750	7508
Number of new patents	1153	2963	2992
Number of national, provincial, or industry association science and technology awards	53	54	68

Supply Chain Management

Key Indicators	2022	2023	2024
Total Number of Suppliers	64877	78466	90724
Number of new suppliers added during the year	16482	13589	12258
Number of annual supplier evaluations	18726	20869	24844

Power Generation

Key Indicators	2022	2023	2024
Total consolidated installed capacity (MW)	124710	145840	158310
Proportion of installed capacity from clean energy (%)	97	96	96
Total power generation (TWh)	383.8	413.6	457.4
Proportion of clean energy power generation (%)	95	95	94

Overseas Power Generation

Key Indicators	2022	2023	2024
Total consolidated installed capacity (MW)	12610	11780	12360
Proportion of installed capacity from clean energy (%)	100	100	100
Total power generation (TWh)	36.6	42.9	39
Proportion of clean energy power generation (%)	100	100	100

Contribution to SDGs

SDGs	CTG's Practices and Actions	SDGs	CTG's Practices and Actions
	◇ Dedicated to national targeted poverty alleviation ◇ Continued assistance to reservoir resettlement communities ◇ Active participation in public welfare and charitable activities		◇ Protecting living and production rights of reservoir resettlement populations ◇ Strengthening localized management of overseas projects
	◇ Proactive implementation of rural revitalization strategy ◇ Extensive industrial support initiatives ◇ Continued assistance to reservoir resettlement communities ◇ Optimized reservoir scheduling for agricultural irrigation support		◇ Fulfilling responsibilities for flood control and disaster mitigation ◇ Improving community living environments ◇ Actively advancing ecological governance
	◇ Strengthening work safety management ◇ Implementing public health infrastructure assistance programs ◇ Advancing employee health care efforts ◇ Supporting the improvement of drinking water safety		◇ Continuously promoting green and low-carbon operations ◇ Vigorously developing clean energy ◇ Providing standardized treatment of wastewater, exhaust gas, and solid waste ◇ Continuously optimizing supply chain management processes
	◇ Conducting training in corporate culture and professional skills ◇ Conducting extensive educational support activities ◇ Promoting local talent development		◇ Enhancing capacity to resist and adapt to climate change ◇ Actively developing and promoting clean energy ◇ Promoting and popularizing low-carbon and environmental protection concepts
	◇ Upholding equal employment opportunities and prohibiting gender discrimination ◇ Providing breastfeeding accommodations for female employees ◇ Organizing health checkups for women and children		◇ Implementing ecological restoration projects for water bodies ◇ Protecting rare fish species ◇ Organizing proliferation and release activities for species such as the Chinese sturgeon
	◇ Ensuring agricultural irrigation and domestic water supply ◇ Comprehensive promotion of water pollution prevention and control ◇ Construction of water treatment facilities		◇ Conserving rare plants unique to the Three Gorges region ◇ Protecting rare resource plants unique to the Yangtze River Basin ◇ Actively promoting cooperation on ecological protection projects within the Yangtze River Basin
	◇ Optimizing operation and management of cascade reservoir systems to improve water resource utilization ◇ Accelerating development of wind and solar power ◇ Building multi-energy complementary renewable energy bases ◇ Focusing on pumped-storage hydropower station construction		◇ Adhering to legal compliance and regulated corporate operations ◇ Establishing an authoritative and efficient audit supervision system
	◇ Respecting and protecting employees' lawful rights and interests ◇ Timely and full payment of social insurance, strictly prohibiting forced labor ◇ Providing community skills training ◇ Creating employment opportunities for local communities		◇ Building international cooperation platforms ◇ Advancing international energy cooperation under the Belt and Road Initiative ◇ Establishing and improving enterprise-local government collaboration mechanisms for of the well-coordinated conservation of the Yangtze River
	◇ Supplying safe and affordable clean energy to Belt and Road countries ◇ Carrying out infrastructure assistance worldwide ◇ Enhancing scientific and technological innovation and safeguarding intellectual property rights		

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Expert Comments

The 2024 Social Responsibility Report of China Three Gorges Corporation (hereinafter referred to as the "Report") is the 15th social responsibility/sustainability report released by China Three Gorges Corporation. The Report comprehensively presents CTG's practices and outcomes in actively fulfilling social responsibilities throughout 2024, underscoring its commitment as a central enterprise to advancing high-quality and sustainable development.

Clear and well-structured, with detailed and rich content

The report consistently weaves the theme of "GREEN" throughout, reflecting China Three Gorges Corporation's brand essence of "empowering a greener world". The "Governance" chapter demonstrates CTG's efforts in improving governance structure and consolidating safety foundations. The "Reform and Innovation" chapter highlights the measures taken and results achieved in deepening reforms and driving innovation. The "Energy" chapter details CTG's accomplishments in hydropower, renewable energy, and related fields, as well as its significant contributions to international clean energy development. The "Eco-Environmental Conservation" chapter showcases CTG's active initiatives in collaboratively safeguarding the Yangtze River's safety and protecting biodiversity. The "Nice" chapter emphasizes its practices in rural revitalization, public welfare, and other social responsibility areas, enhancing people's well-being through consumption assistance, education, and medical support.

Focus on achievements in fulfilling responsibilities, showcasing corporate commitment

The report highlights CTG's key initiatives and major achievements in fulfilling its social responsibilities, driving high-quality development, and ensuring the efficient operation of major national projects. It clearly demonstrates CTG's sense of mission and commitment to serving national strategies with the overarching interests of the country in mind.

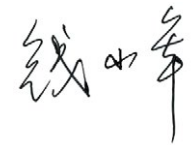
Comprehensively demonstrating ESG principles and thoroughly fulfilling social responsibilities

CTG actively embraces the concept of sustainable development, with its practices and actions closely aligned with ESG principles. The report comprehensively showcases its efforts in strengthening corporate governance and compliance management, and advancing reform and innovation. It also highlights achievements in actively fulfilling social responsibilities and implementing ESG principles across areas such as clean energy, ecological protection, rural revitalization, and overseas operations.

Presenting content in multiple formats for easier stakeholder understanding

The report offers rich and diverse content through visually striking full-scene images, vivid case studies of responsibility practices, systematic and detailed performance data, and a matrix showcasing benchmark honors for responsibility. It intuitively and clearly reflects CTG's ongoing exploration and value creation in environmental, social, and governance areas. By integrating multi-dimensional information with professional presentation, the report provides readers who seek an in-depth understanding of CTG's 2024 responsibility philosophy and practices with a resource that balances depth, breadth, and clarity, achieving a seamless blend of professionalism and readability.

The year 2025 marks the final year of implementing the 14th Five-Year Plan and the year for planning and laying out the 15th Five-Year Plan. China Three Gorges Corporation is expected to continue advancing the green energy transition, strengthening ecological and environmental protection, and deepening international cooperation, thereby making greater contributions to China's high-quality economic and social development and to global sustainable development.



Former Vice Dean and Professor of Schwarzman College,
Tsinghua University

Report Rating

CTG's Social Responsibility Report has received
a five-star rating for three consecutive years



Rating Report on the 2024 Social Responsibility Report of China Yangtze Three Gorges Corporation

Commissioned by China Three Gorges Corporation, the "Chinese Expert Committee on CSR Report Rating" randomly selected experts from its panel to form a rating group to evaluate the 2024 Social Responsibility Report of China Three Gorges Corporation (hereinafter referred to as the "Report").

I. Rating Basis

The Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-CSR 4.0) for the Power Generation Industry issued by the Chinese Academy of Social Sciences, and the China Corporate Sustainability Report Rating Standards (2025) developed by the Chinese Expert Committee on CSR Report Rating.

II. Rating Process

1. The rating group reviewed and verified the Corporate Sustainability Report Process Evaluation Data Confirmation Letter and relevant supporting documents submitted by the report drafting team.
2. The rating group evaluated the drafting process and content of the Report and prepared the rating report.
3. The Vice Chair of the Rating Expert Committee, the head of the rating group, and the group's experts jointly reviewed and signed the rating report.

III. Rating Conclusion Process (★★★★★)

CTG has established a Sustainability Report Preparation Working Group, with the Social Responsibility Office taking the lead in coordinating the preparation work. Core departments and subsidiaries provide source materials and are responsible for reviewing and confirming the report's content, while CTG executives is responsible for the final approval. The Report is positioned as an important tool for ensuring compliance disclosure of responsibility information, responding to stakeholder concerns, improving social responsibility management, strengthening stakeholder communication, and building a responsible brand image, with clearly defined functional value. Material topics were identified based on national macro policies, relevant domestic and international standards, industry benchmarking analyses, CTG's development strategy, and stakeholder surveys. CTG promoted the release of ESG reports by subsidiaries including CYPC, CTGI, China Three Gorges Renewables, Hubei Energy, and CSAIL. The Report is planned to be released on the official website and presented in various formats, including bilingual digital versions, printed editions, long infographic versions, and H5 interactive versions, demonstrating outstanding process management performance.

Substantiality (★★★★★)

The report systematically discloses key issues in the power generation industry, including the implementation of macro policies, ensuring reliable power supply, work safety, development of green power, environmental assessment systems for construction projects, resource and energy conservation, circular economy development, reduction of emissions from wastewater, waste gas, and solid waste (commonly referred to as the "three wastes"), as well as environmental management within and around plant sites. The narrative is detailed and comprehensive, demonstrating outstanding substantive performance.

Completeness (★★★★☆)

The report systematically discloses 81.29 percent of the core indicators for the power generation industry from the perspectives of "Governance: Strengthening Internal Momentum", "Reform and Innovation: Inspiring Creative Vitality", "Energy: Consolidating the Foundation for Development", "Eco-Environmental Conservation: Preserving the Natural Essence", and "Nice: Depicting a Beautiful and Harmonious Blueprint Together", demonstrating a leading level of completeness.

Balance (★★★★☆)

The report discloses negative data including the number of power safety accidents, number of major equipment accidents, number of employee casualties, work-related injury rate, number of workdays lost due to work-related injuries, and occupational disease rate, demonstrating a leading level of balanced disclosure.

Comparability (★★★★★)

The report discloses comparative data over three consecutive years for 66 key indicators, including operating revenue, overall labor productivity, R&D investment, number of supplier social responsibility training sessions, proportion of installed capacity from clean energy, total power generation, percentage of new projects where EIAs and SIAs have been carried out, employee satisfaction, and number of volunteer service teams. It also presents horizontal comparisons, such as China Three Gorges Corporation's ranking of 27th in the 2024 Central Enterprise New Media Index and its consecutive 17-year rating as an A-level enterprise in the State Council's annual performance appraisal, demonstrating outstanding comparability.

Readability (★★★★★)

The report, centered around the theme GREEN, systematically presents CTG's social responsibility actions and outcomes across five main chapters: governance, reform and innovation, energy, eco-environmental conservation, and nice. It fully demonstrates the commitment to "empowering a greener world". The cover design features a fresh and elegant ink painting style, integrating elements of the CTG's core business. Chapter spreads incorporate large, real-life images reflecting CTG's characteristics, enhancing corporate recognition. Dedicated sections such as "Honors and Awards" and "Key Performance" enable readers to quickly grasp key information. Multiple embedded QR codes extend and enrich the report content, resulting in outstanding readability.

Innovation (★★★★★)

The report opens with a "Responsibility Focus" section titled "Enhancing Safety Support through Lean Operation of a National Strategic Project" showcasing CTG's key responsibility initiatives and highlights, reflecting its strong commitment to corporate responsibility. A dedicated "Contribution to SDGs" section facilitates ongoing benchmarking efforts. CTG issued a Biodiversity Conservation Report and encouraged its subsidiaries to prepare and publish ESG reports, thereby establishing a diversified, multi-level reporting system that demonstrates outstanding innovation.

Overall Rating (★★★★★)

After evaluation by the rating group, the 2024 Social Responsibility Report of China Three Gorges Corporation received a five-star rating and is recognized as an outstanding corporate social responsibility report.



CTG's Social Responsibility Report has received a five-star rating for three consecutive years.

Improvement Suggestions

1. Increase the disclosure of core industry indicators to further enhance the report's completeness;
2. Increase the disclosure of cases highlighting responsibility shortcomings to further enhance the report's balance.

Vice Chairman of the Rating Expert Committee

Leader of the Rating Group

Rating Group Expert



Issued on: June 13, 2025

Scan the QR code to view the CTG's rating files

Reader Feedback

Thank you for reading the 2024 Social Responsibility Report of China Three Gorges Corporation. To better meet your needs, provide you and all stakeholders with more valuable information, and further enhance CTG's overall management capabilities and performance, we sincerely invite you to share your valuable suggestions on this report. Your feedback will help us continuously improve our social responsibility practices and disclosures. Please feel free to reach us through the following channels.

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Email: szbg@ctg.com.cn

Address: No. 1, Liuhe Road, Jiang'an District, Wuhan, Hubei Province

Postcode: 430010

1. What is your identity from the perspective of stakeholder?

- ☐ Investor
- ☐ Resettled resident from reservoir area
- ☐ Community
- ☐ Employee
- ☐ Customer
- ☐ Environment
- ☐ Partner
- ☐ Provinces and Cities in the Yangtze River Basin
- ☐ Media
- ☐ Other _____

2. Your overall impression of this report:

- ☐ Very good
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Very poor

3. How will you rate the Report in terms of the information disclosure, accuracy, completeness, layout design, and readability of the Report:

- Information Disclosure:

☐ Very good

☐ Good

☐ Fair

☐ Poor

☐ Very poor
- Accuracy:

☐ Very good

☐ Good

☐ Fair

☐ Poor

☐ Very poor
- Completeness:

☐ Very good

☐ Good

☐ Fair

☐ Poor

☐ Very poor
- Readability:

☐ Very good

☐ Good

☐ Fair

☐ Poor

☐ Very poor
- Layout design:

☐ Very good

☐ Good

☐ Fair

☐ Poor

☐ Very poor

4. What your opinions and suggestions on CTG's efforts to promote sustainable development and our preparation of sustainability reports?

About the Report

Time range

From January 1, 2024, to December 31, 2024, some expressions and data appropriately trace back to previous years.

Designations

For ease of reference and reading, China Three Gorges Corporation is referred to as CTG in the report.

Reporting Cycle

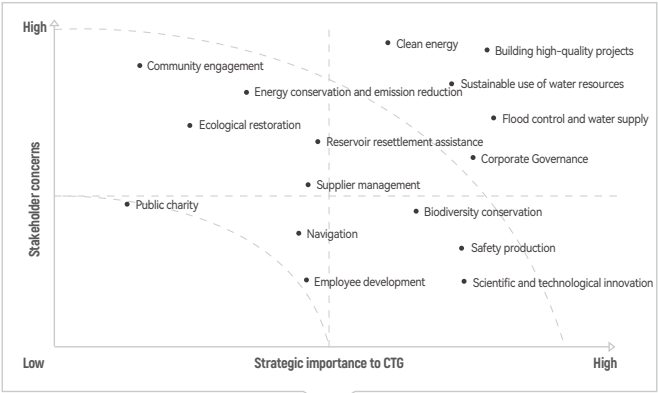
The report is published annually and is the 15th Social Responsibility Report/Sustainability Report released by CTG since 2010.

Substantive Analysis

Identification

Primary sources	Issues
- Proposals raised at employee democratic meetings and employee representative congresses - Concerns and expectations from grid companies and other customers - Feedback collected via the official website of China Three Gorges Corporation - Opinions gathered through resettlement consultation meetings - Communication meetings with local governments - Feedback received during supplier communication meetings - Community opinion collection - Environmental impact evaluation - Discussions at hydropower industry seminars - Expert feedback from hydropower professionals - Participation in the formulation of industry standards - Participation in international organizations and industry associations	- Development strategy - Corporate Governance - International operations - Building high-quality projects - Safety production - Community engagement - Supplier management - Responsible procurement - Tackling Climate Change - Ensuring Employee Rights and Interests - Employee care - Human rights protection - Compliance with laws and regulations - Transparent operation - Employee development - Energy conservation and emission reduction - Biodiversity conservation - Sustainable use of water resources - Ecological restoration - Flood control and water supply - Navigation - Clean energy - Reservoir resettlement assistance - Scientific and technological innovation - Environmental management - Industry standards development - Public charity

Sorting



Verification

Internal	External
- Review by social responsibility management office - Review by related departments and subsidiaries - Final approval by company leadership	- NGO participation - Participation of third-party consulting agencies - Report rating - Stakeholder communication meetings

Preparation Guidelines

The report has been prepared with reference to ISO 26000:2010 Guidance on Social Responsibility, the United Nations 2030 Sustainable Development Goals (SDGs), the Global Reporting Initiative (GRI) Standards, the Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises(CASS-CSR 4.0) by the Chinese Academy of Social Sciences, the Guiding Opinions on High-Standard Fulfillment of Social Responsibility by Central Enterprises in the New Era issued by the State-owned Assets Supervision and Administration Commission of the State Council, the Corporate Sustainable Disclosure Standards – Basic Standards (Trial) issued by the Ministry of Finance, and the China Enterprise Sustainability Reporting Guide(CASS-ESG 6.0).

Preparation process

Form a preparation team → Develop a work plan → Plan report content → Collect information → Draft the report → Design and typeset → Release publicly → Summarize and review

Reporting Scope

China Three Gorges Corporation as a whole (see organizational structure in "About CTG").

Data source

The data used in the report are sourced from official documents and statistical reports of 2024, with some historical data restated.

Reliability assurance

The information disclosed in the report is true, reliable, and timely, aligning with CTG's sustainable development strategy. It provides a comprehensive response to key stakeholder concerns and an objective reflection of the CTG's social responsibility performance.

Report Framework Interpretation

The report centers on CTG's motto "Empowering a Greener World", creatively using the English word GREEN as its thematic structure. It is divided into five chapters: Governance, Reform and Innovation, Energy, Eco-Environmental Conservation, and Nice. The report reflects CTG's brand culture, highlights CTG's commitment to the sustainable development and harmonious coexistence between humanity and nature.

Access to the Report

The report is available in both Chinese and English versions, provided in print and online formats. For a printed copy, please email szbg@ctg.com.cn or call 027-85086881. The online version can be downloaded from the official website of China Three Gorges Corporation at <https://www.ctg.com.cn/ctgenglish/>, or accessed by scanning the QR code on the back cover.



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