



ANNUAL REPORT ON ENVIRONMENTAL PROTECTION 2018

China Three Gorges Corporation

About the Report

Time Frame

From January 1 to December 31, 2018. Part of the content may exceed the aforementioned time frame.

Scope

This report covers the work related to environmental protection involved in the main business of CTG, excluding environmental protection in the projects the Corporation has a stake in.

Definition of Environmental Protection

Environmental protection as described in this report not only includes management of the environmental impacts of the Corporation's activities, but also includes work related to such aspects as soil and water conservation, ecological restoration and energy saving.

Terms of Reference

The terms "the Group", "the Corporation" and "CTG" which appear in this report all refer to China Three Gorges Corporation.

Context of the Publication

The Corporation's annual report on environmental protection has been published for 14 consecutive years since 2006. The electronic versions can be downloaded from the official website of CTG.

Data in the Report

The data referenced in this report is CTG's final statistical data for 2018.

Reference Standards

This report mainly uses the following standards as reference:

- *Environmental Protection Law of the People's Republic of China* (as amended on April 24, 2014)
- *Guidelines for Drafting on Corporate Environmental Reports* (HJ 617-2011), National environmental protection standards of the People's Republic of China
- *Disclosure Mechanism for the Assessment of the Environmental Impact of Construction Projects*, the Ministry of Ecology and Environment of the People's Republic of China
- GB/T 36000-2015, *Guidance on Social Responsibility*, National Standard of the People's Republic of China
- *GRI Sustainable Development Report Standard, the Global Reporting Initiative (GRI)*
- *Hydropower Sustainability Assessment Protocol*, International Hydropower Association (IHA)

Languages Available

This report is available in Chinese and English, and published in both a printed version and an online version. For the online version, please visit CTG's website at <http://www.ctg.com.cn/> to download. If a printed version is needed, please email wang_pengyuan@ctg.com.cn or call 86-10-57081675.

Further Reading

More content is available on CTG's web page. Please log on to <http://www.ctg.com.cn/> to read it. Other related information concerning environmental protection can be found in the following documents:

- *Ecological and Environmental Monitoring Bulletin of the Three Gorges Project*
- *Annual Report of China Three Gorges Corporation*
- *Sustainability Report of China Three Gorges Corporation*
- *Social Responsibility Report of China Yangtze Power Co., Ltd.*
- *Social Responsibility Report of Hubei Energy Group Co., Ltd.*

Goals

- To gradually standardize the report compilation in accordance with *the Guidelines for Drafting on Corporate Environmental Reports* (HJ 617-2011), which is a national environmental protection standard of the People's Republic of China.
- To further improve environmental management, achieve more comprehensive and in-depth management of environmental responsibility, and enhance transparent disclosure of environmental information according to the requirements of GB/T 36000-2015 *Guidance on Social Responsibility*.
- To introduce the Hydropower Sustainability Assessment Protocol compiled by IHA and take into consideration the actual situations in China in order to draw support from the studies of China's hydropower sustainability assessment guidelines to form an environmental practice disclosure system for hydropower development enterprises with Chinese characteristics.

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Message from Top Management



Lei Mingshan
Board Chairman of China Three Gorges Corporation

雷鸣山



Wang Lin
President of China Three Gorges Corporation

王林

In 2018, the National Conference for Ecological Environment Protection was organized to strengthen the protection of the ecological environment and combat pollution. It called on the whole Party, the whole country and the whole society to work together, in order to bring the construction of ecological civilization in China to a new level. This year is the 40th year of the Reform and Opening-up policy in China and the 25th anniversary of the founding of CTG. Chinese President Xi Jinping inspected the Three Gorges Project and delivered an important speech, which was the greatest affirmation and praise given to the Three Gorges Project and CTG. As a central enterprise with the gene of revolution, originated from the Three Gorges Project and rooted in the Yangtze River Basin, CTG has always been closely linked with the future and destiny of the country and was there at every step of the green development of the Yangtze River, playing a key role in the joint protection of the Yangtze River, which is the due responsibility and mission of CTG.

This year, CTG closely focused on the strategic goal of building a world-class clean energy group with strong innovative ability and global competitiveness, attached great importance to ecological environmental protection, carried out environmental management following the principles of "whole basin, whole life cycle, open sharing, scientific and technological innovation", and simultaneously planned and implemented engineering construction, environmental protection and ecological restoration to effectively promote the green development of the Yangtze River Economic Belt.

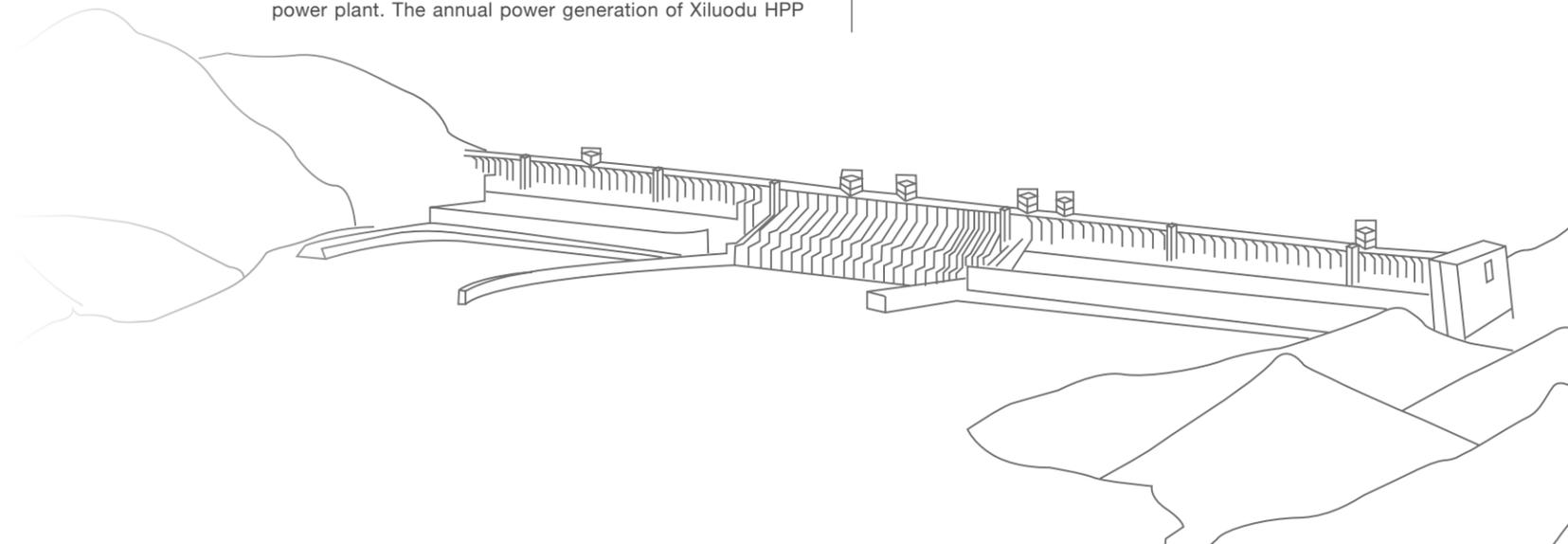
In this year, CTG made great efforts to play a key role in the joint protection of the Yangtze River. It set up Yangtze Ecology and Environment Co., Ltd. to start the first pilot projects in four cities in Hubei, Hunan, Jiangxi and Anhui provinces, and actively explore a sustainable market-oriented business model. CTG promoted the establishment of engineering research centers and green development funds to provide technical support and financial support for the joint protection of the Yangtze River. CTG actively carried out ecological environmental protection work, strengthened environmental protection cooperation with local governments through urban sewage treatment, and comprehensively promoted water pollution prevention, the ecological restoration of water and the protection of water resources. Preparations were made for the establishment of an industry alliance for the joint protection of the Yangtze River, and efforts were made to build a major protection structure with the participation of the whole society.

In this year, CTG made full use of the comprehensive benefits of the Three Gorges Project in terms of flood control, power generation, navigation and water resource utilization, and produced 101.6 TWh of green electricity, setting a domestic record for the annual power generation of a single power plant. The annual power generation of Xiluodu HPP

was 62.47 TWh, the best level ever reached. "Zero unscheduled shutdown" was realized at Xiangjiaba HPP throughout the year. More than half of the concrete pouring of the main part of Wudongde HPP was completed and the first main hydraulic structure of Baihetan HPP was fully capped, which lays a solid foundation for forging the two hydropower plants as the pillars of a great power in the new era.

In this year, CTG took a solid step in promoting large-scale development of new energy such as wind power, photovoltaic power and pumped storage power, and made a breakthrough towards its strategic aim of becoming a leader in offshore wind power. CTG has continued to provide services for the Belt and Road Initiative, deepened management integration and cultural integration, led China's hydropower equipment, technology and standards to "go out" and built an upgraded version of China's hydropower industry according to the "Going Out" policy to promote the sustainable development of the global clean energy industry.

2019 marks the 70th anniversary of the founding of the People's Republic of China. This is the year when CTG will fully implement the joint protection of the Yangtze River to achieve good results once again. In this year, we will apply the principle of "Ecology First, Green Development", accelerate the development of a world-class clean energy provider, promote the joint protection of the Yangtze River in order to produce good results again, create excellent green projects, explore a new model of ecological environment restoration that can be replicated and popularized, promote the sustainable development of clean energy at home and abroad, present our outstanding achievements as a gift on the 70th anniversary of the founding of the People's Republic of China, and make greater contributions to the harmonious coexistence of man and nature!





Panorama of the Three Gorges Project

About Us

China Three Gorges Project Corporation was officially founded on September 27, 1993, renamed "China Three Gorges Corporation" on September 27, 2009, and then restructured on December 28, 2017 (abbreviated as "CTG", referred to as "the Corporation" or "the Group").

CTG's strategic positioning is as follows: We will actively support major national strategies such as the development of the Yangtze River Economic Belt and the construction of the Belt and Road Initiative, play a central role in the in-depth integration of the Yangtze River Economic Belt and the joint protection of the Yangtze River, assume the function of basic guarantee in the promotion of regional sustainable development, and take the lead in promoting the upgrade, innovation and development of the clean energy industry. We will deepen the reform and accelerate the establishment of a world-class clean energy group with strong innovative capability and global competitiveness.

As of the end of 2018, CTG was made up of 347 wholly owned or holding subsidiaries in which two of them are listed

companies, with business across 31 provinces, cities and autonomous regions within China, reaching 47 countries and regions. CTG had a consolidated installed capacity of 70.3 GW, with a total installed capacity of 128 GW, whilst 96% of the total was of renewable clean energy, and consolidated hydropower capacity accounted for 14% of the whole nation. The assets of CTG added up to RMB 750.4 billion, revealing excellent operating performance.

CTG takes the full responsibility for the construction and operation of the Three Gorges Project. After more than 20 years of hard work, the preliminary design and construction of the Three Gorges Project was completed on schedule in 2009, and the ship lift of the Project was successfully put into trial operation in September 2016. According to the mandate given by the state, CTG is also responsible for the development, construction and operation of the four world-class giant cascade hydropower plants, i.e. Xiluodu, Xiangjiaba, Wudongde and Baihetan, in the lower reaches of the Jinsha River. By the end of the 13th Five-Year Plan (2016–2020), the two hydropower plants of Wudongde and Baihetan will be built and put

into operation successively. Five of the top ten hydropower plants in the world will be controlled by CTG, and over 2/3 of the world's hydro-generating units over 700 MW will be run by CTG. CTG actively develops new energy businesses such as wind power and solar power, strives to make its new energy business into its second main business, and is committed to becoming a leader in offshore wind power. CTG follows the national Belt and Road Initiative, accelerates the implementation of the "Going Out" policy, strives to upgrade the "Going Out" of China's hydropower. Overseas business has become an important growth pole for CTG's sustainable development.

In the process of developing clean energy, CTG has accelerated the implementation of the five major development concepts of innovation, coordination, ecology, openness and sharing, played a key role in the joint protection of the Yangtze River, actively strengthened communication with 11 provinces and cities along the river, and signed cooperation agreements with a number of leading enterprises in the industry. Its high standards and high starting point for planning

and design, deep integration into the Yangtze River Economic Belt, and its first pilot project for the joint protection of the Yangtze River are starting to produce results. While giving full play to the ecological benefits of flood control and disaster mitigation, water resources protection and energy conservation brought by cascade hydro-complex in river basins, the combination of hydropower development with ecological, social and economic benefits can be achieved through engineering measures, technical means and scientific dispatching. At the same time, CTG has also actively participated in such social public benefit activities as targeted poverty alleviation, fixed-point poverty alleviation, counterpart support, co-construction of enterprises and localities, and assistance to Xinjiang and Tibet autonomous regions. It has continuously promoted the coordination of hydropower development with the stability and prosperity of migrants, the protection of ecological environment and the development of local economy and society, and strived to benefit more people with achievements of reform and development.

2018 by the Numbers

Environmental protection input Unit: 0.1 billion RMB



Total clean energy generation in China Unit: 0.1 TWh



Emission reduction benefits of clean energy Unit: 0.01 million tons



* equivalent to avoiding standard coal

Emission reduction benefits of clean energy Unit: 0.01 million tons

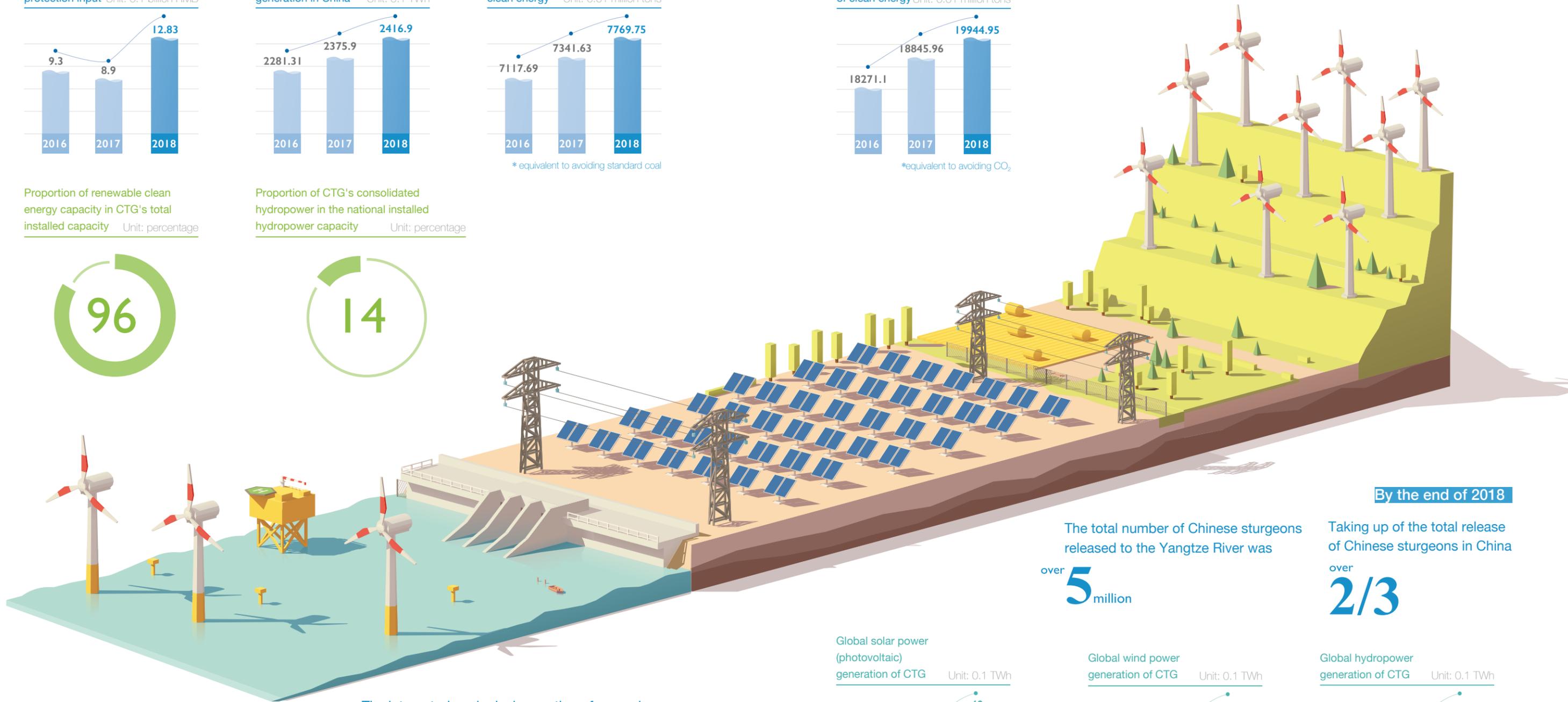


*equivalent to avoiding CO₂

Proportion of renewable clean energy capacity in CTG's total installed capacity Unit: percentage



Proportion of CTG's consolidated hydropower in the national installed hydropower capacity Unit: percentage



By the end of 2018

The total number of Chinese sturgeons released to the Yangtze River was over **5 million**

Taking up of the total release of Chinese sturgeons in China over **2/3**

The implementation of environmental impact assessment for new projects is

100%

The integrated ecological operation of cascade reservoirs in the Yangtze River Basin promoted the spawning of the four major Chinese carps (monitored at the Yidu section)

1.33 billion eggs

Global solar power (photovoltaic) generation of CTG Unit: 0.1 TWh



Global wind power generation of CTG Unit: 0.1 TWh



Global hydropower generation of CTG Unit: 0.1 TWh



A Good Start of the Joint Protection of the Yangtze River is Assured



In April 2018, Chinese President Xi Jinping inspected the Three Gorges Project and pointed out at the Symposium on promoting the development of the Yangtze River Economic Belt that CTG should play its due role in the joint protection of the Yangtze River and actively participate in the ecological restoration and environmental protection of the Yangtze River Economic Belt. This is a new historic mission that the country has entrusted to CTG. CTG responded quickly and positively, coordinated the construction of management mechanism, built five major physical platforms, carried out pilot projects, ushering in a new chapter together with partners.



Link: 

Be Faster, Be Better, Do More, and Assume a Pivotal Role in the Joint Protection of the Yangtze River



Top-level Design

CTG's leading group for the coordinated protection of Yangtze River is responsible for the work in this regard, and the President of CTG is the group leader. Yangtze Ecology and Environment Co., Ltd. was unveiled to include investment and operation of eco-environmental protection into the main business of CTG.



Organizational structure in charge of joint protection of the Yangtze River

CTG has reached a consensus with four pilot cities along the Yangtze River Basin, namely Yichang, Jiujiang, Yueyang and Wuhu, and signed framework cooperation agreements to form a systematic and comprehensive water conservancy force together with the governments.



CTG has deepened its strategic cooperation with enterprises, research institutes of planning and design, financial institutions, etc. It has signed framework cooperation agreements with central enterprises such as China International Engineering Consulting Corporation, carried out cooperation and exchanges with a number of environmental protection enterprises such as Beijing Enterprises Water Group Limited, discussed financial support policies with financial institutions such as banks, given full play to alliance advantages, and provided in-depth assistance for the implementation of the joint protection of the Yangtze River.

Circle of partners for the joint protection of the Yangtze River

Planning and Design

Shanghai Municipal Engineering Design Institute (Group) Co., Ltd. (SMEDI), North China Municipal Engineering Design & Research Institute Co., Ltd., Chinese Institute of Urban Scientific Planning and Design, Changjiang Institute of Survey, Planning, Design and Research (CISPDR), POWERCHINA Huadong Engineering Corporation Limited, Chinese Academy of Environmental Planning, and Shanghai Investigation, Design & Research Institute Co., Ltd. (SIDRI), etc.

Construction

China Railway Group Limited, China National Nuclear Corporation, POWERCHINA, Energy China, China Railway Construction Corporation Limited, China State Construction Engineering, China National Chemical Engineering Co., Ltd., China Communications Construction, China Metallurgical Group Corporation, and China Anneng Construction Corporation, etc.

Finance

Agricultural Bank of China, China Development Bank, Agricultural Development Bank of China, Industrial and Commercial Bank of China, Bank of China, Bank of Communications, China Construction Bank, China Life Insurance, etc.

Consulting

China International Engineering Consulting Corporation, Policy Research Center for Environment and Economy (Ministry of Ecology and Environment of the People's Republic of China), Appraisal Center for Environment and Engineering (Ministry of Ecology and Environment), China Renewable Energy Engineering Institute (Ministry of Water Resources), Institute for Urban and Environmental Studies (Chinese Academy of Social Sciences), China General Consulting and Investment Co., Ltd., Ktrue Consulting, Beijing Qingkong Weishi Consulting, and E20 Environment Platform, etc.

Investment, Operation and Maintenance

Beijing Enterprises Water Group Limited, Beijing Capital Co., Ltd., Beijing Orient Landscape Co., Ltd., Sound Group, China Water Environment Group Limited, Suez Environment, China Everbright International Limited, and Beijing OriginWater Technology Co., Ltd., etc.

Research

Tongji University, Tsinghua University, Beijing Normal University, Shanghai Jiaotong University, Chongqing University, Sichuan University, Wuhan University, Hohai University, Research Center for Eco-Environmental Sciences (Chinese Academy of Sciences), Chinese Research Academy of Environmental Sciences, China Institute of Water Resources and Hydropower Research, Nanjing Institute of Geography and Limnology (Chinese Academy of Sciences), etc.



Actions

We have carried out in-depth research on the current situation of the water environment in the pilot cities, summarized and put forward the overall urban sewage treatment scheme. Breakthroughs were made in the four pilot cities, i.e. Jiujiang, Yueyang, Wuhu and Yichang.



Link:

Monthly Dispatching Meeting on the Pilot Project for Urban Sewage Treatment in the Yangtze River Economic Belt and Kick-Off Meeting for the Second Group of Pilots Cities

Promoting the Launch of Pilot Projects

CTG and the four pilot cities along the Yangtze River cooperated to promote the launch of pilot projects, and summarized and refined a number of new models, mechanisms, standards and norms that are sustainable, reproducible and scalable. A second series of projects is planned to be promoted in 12 cities, including Chongqing, Shanghai, Wuhan and Nanjing.



Basai Hub Project



Rendering of the restorative effect of the Baishui Lake comprehensive management project



Jiujiang Project Site



Rendering of the restored two rivers (Shili River and Lianxi River) after the comprehensive management project was finished

Protection of the River Basin

Protecting the Yangtze River is an important mission of CTG. The Corporation has brought the whole life cycle of the Yangtze River Basin into the scope of the joint protection of the Yangtze River, implemented ecological protection and restoration measures, protected the ecological environment of the Yangtze River Basin, and guaranteed that "the clear water of the Yangtze River flows eastward".

Protecting the beauty of ecological diversity of the Yangtze River through multiple measures

CTG has established and is actively improving a long-term mechanism for ecological protection in the Yangtze River Basin, systematically carries out integrated ecological dispatching experiments on cascade reservoirs, takes care of habitat protection and restoration, oversees the proliferation and release of rare and endemic fish as well as the protection of rare plants, and continues to contribute to the protection of biodiversity in the Yangtze River Basin.

New breakthroughs were made during ecological dispatching experiments

In 2018, an experiment in integrated ecological dispatching of the cascade reservoirs of Xiluodu, Xiangjiaba and Three Gorges was carried out, using dispatching to intentionally increase the outflow of the cascade reservoirs. A continuous flood was thus maintained in the reaches of the Yangtze River downstream of Yibin, which created favorable hydrologic and hydraulic conditions for fish reproduction and promoted the reproduction of drifting spawning fish in the Chuanjiang River and the middle and lower reaches of the Yangtze River. The total number of eggs laid by the four major species of Chinese carps was 1.33 billion, a new record.

Completing the release of Chinese sturgeons of the richest age range in China

On April 14, 2018, in Yichang, CTG conducted the "Chinese Sturgeon Releasing of 2018" together with the Ministry of Agriculture and Rural Affairs, the Agriculture Department of Hubei Province and the Municipal Government of Yichang. The released group includes five age echelons, which is the highest number in the history of Chinese sturgeon releases, and has a systematic complementary effect on the resources of wild Chinese sturgeon. By the end of 2018, the Chinese Sturgeon Research Institute had released over 5 million Chinese sturgeons into the Yangtze River.

Times of Chinese sturgeon releasing

60

Total number of Chinese sturgeons released into the Yangtze River

over **5** million



Chinese Sturgeon Releasing of 2018 by CTG

Establishment of a conservation base for rare and endemic plants in the Three Gorges, covering a great variety of plants and a wide area

CTG uses a combination of ex situ conservation of rare plants in the field, conservation of germplasm resources in botanical gardens, seedling breeding research and terrestrial ecological restoration to carry out plant protection work in the dam reservoir



area. By the end of 2018, 560 rare plants affected by the construction of the Three Gorges Project had been protected, none of them had gone extinct. Ex-situ conservation of 436 species and 18,000 unique rare plants belonging to 214 genera, 94 families in the Three Gorges Reservoir area had been completed. More than 55,000 seedlings of rare plants had been bred through tissue culture, cutting and sowing, as a 1-million square meter base dedicated to the protection of unique rare plants in the Three Gorges area had been established, and preliminarily plant protection work had been carried out in the Jinsha River Basin.

In 2018, we completed the ex-situ conservation of the endemic and endangered plants in the Three Gorges region, such as *Buxus ichangensis* Hatusima, *Plantago fengdouensis* and *Chuanminshen violaceum*. Advanced conservation measures were taken to bring the survival rate of rare plants to over 90%, reaching the national leading level.

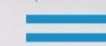
The ecological benefit of CTG's four giant hydropower plants is remarkable

By December 2018, the accumulative power generation of the four giant hydropower plants that have been put into operation by CTG on the Yangtze River mainstream was about 2,400 TWh, which is equivalent to saving 760 million tons of standard coal consumption, avoiding carbon dioxide emissions by 1.94 billion tons and sulphur dioxide emissions by 20.366 million tons, and making positive contributions to energy conservation and emission reduction as well as promoting low-carbon development and green development.

The accumulative power generation of the four hydropower plants is about

2400 TWh

Equivalent to



Saving standard coal consumption

760 million tons



Avoiding carbon dioxide emissions by

1.94 billion tons

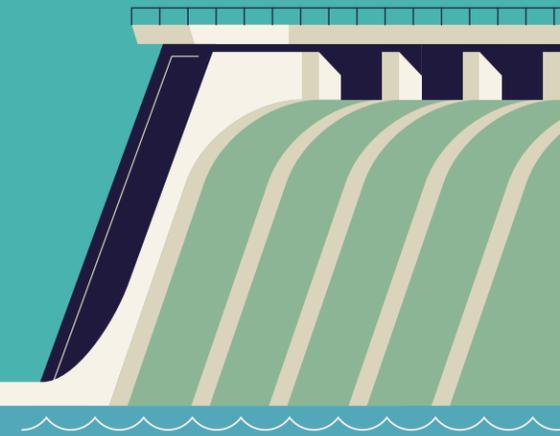


Avoiding sulphur dioxide emissions by

20.366 million tons

Environmental Management 2 0 1 8

As the largest hydropower developer in the world and the largest clean energy provider in China, CTG adheres to the principle of an ecological civilization that respects nature, conforms to nature and protects nature, and practices green development in the whole process of investment, construction and operation of clean energy, giving priority to resource conservation and ecological protection. CTG constantly explores the development path of environmental protection, and follows the pattern of "whole river basin, whole life cycle, openness and sharing, scientific and technological innovation" for environmental protection management.



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Innovation

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Organizational Structure

The organization of CTG's environmental management system includes top managers, managerial representatives, functional departments, directly affiliated organizations and ad hoc organizations. An environmental management system has been established within the subsidiary companies to provide important support for the environmental management system of CTG.

Environmental Protection Control of CTG

The Environmental Protection Department is the centralized management department for the environmental protection work carried out by CTG, it is tasked with centralized management and technical support for each area of environmental protection in CTG.

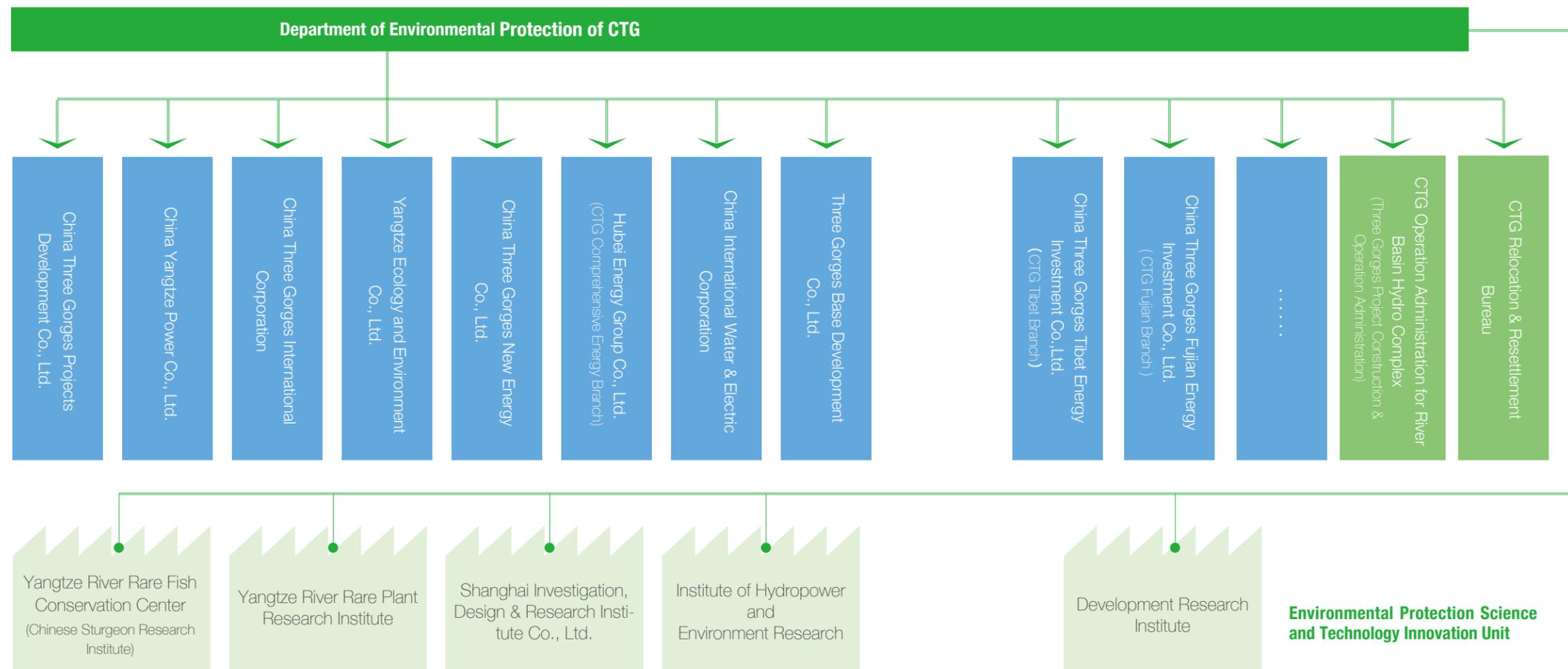
Key Project Management

China Three Gorges Projects Development Co., Ltd. and other subsidiaries are in charge of overall project operation, and supervise the whole process of projects by supervising the implementation of the environmental management system of CTG.

General Project Management

The construction management unit is responsible for organizing and carrying out on-site management of the project and relying on various specialized suppliers to implement it.

Organization System of CTG's Environmental Protection Management



Management System

Regarding the environmental management of CTG, centralized management is carried out by the Environmental Protection Department and each entity is responsible respectively. According to a hierarchical mode of management and control, the headquarters and subsidiaries of CTG implement environmental protection management in all links of the whole life cycle of business activities in accordance with different levels of authority, so as to realize full coverage and life cycle management of environmental protection. The environmental management system of CTG has been certified as ISO 14001. It supports and cooperates with the comprehensive risk management system, internal control system and emergency management system of CTG to realize the effective implementation of environmental protection measures and the effective management and control of environmental risks.

Environment Management System Certification

In 2018, CTG completed the internal and external audits of the environmental management system for ISO 14001, and obtained the new version of the environmental management system certificate.



Environmental Management System

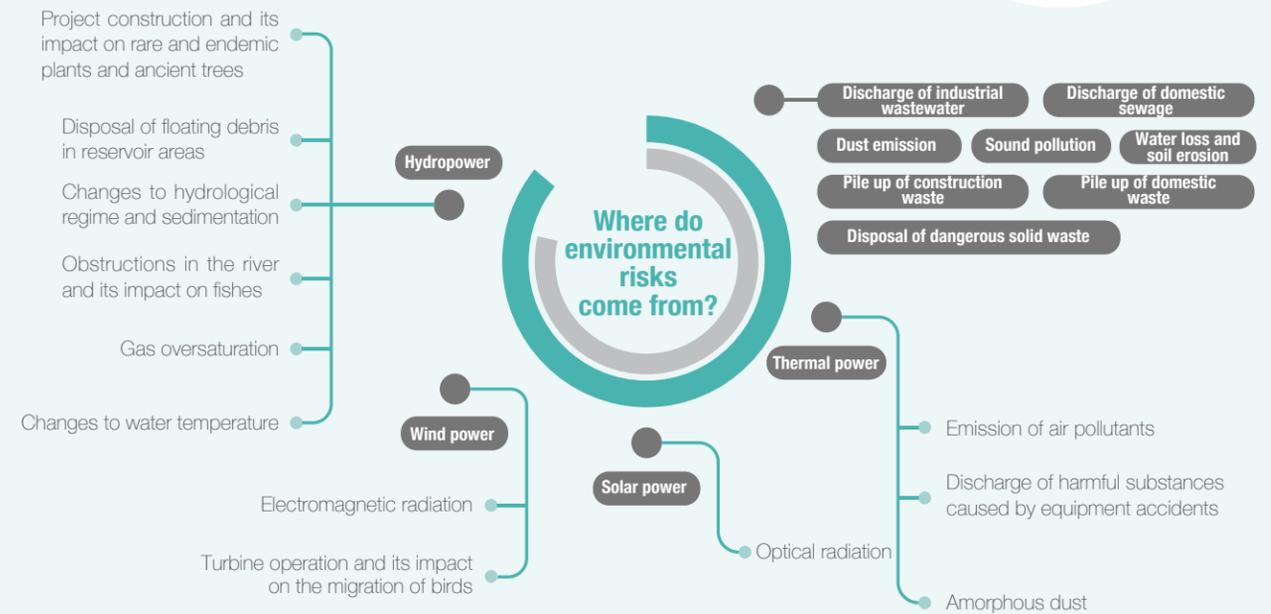
The environmental protection management system of CTG covers environmental management in the early stages and construction period of projects, acceptance management of environmental protection facilities, environmental protection management in the hub operation and power production stage, environmental protection research, monitoring and statistics, management by supervision, etc. In 2018, CTG had 11 revised/new environmental protection management systems, covering hydropower, new energy, international business and other business sectors.

Environmental Management System

System level	System Name
Level II	<i>Environmental Protection Management Regulation of CTG</i>
Level III	<i>Hydropower Project Environmental Protection Management Methods of CTG</i>
Level III	<i>Environmental Protection Plans and Statistics Management Methods of CTG</i>
Level III	<i>Energy Conservation & Emission Reduction Monitoring and Statistics Management Methods of CTG</i>
Level III	<i>Environmental Protection Examination Management Methods of CTG</i>
Level III	<i>Environment Fund Project Management Methods of CTG</i>
Below level III	<i>Environmental Factor Identification and Assessment Management Methods of CTG</i>
Below level III	<i>Environmental Compliance Assessment Management Methods of CTG</i>
Below level III	<i>Solid Waste Management Methods of CTG</i>
Below level III	<i>Resource and Energy Conservation Management Methods of CTG</i>
Below level III	<i>Environmental Protection Public Participation Management Methods of CTG (draft)</i>
Guiding Opinions	<i>Guidance on Enhancing Environmental Risk Management of Equity Investment of CTG in China</i>
Guiding Opinions	<i>Guidance on Enhancing Environmental Protection Management of Overseas Business of CTG</i>

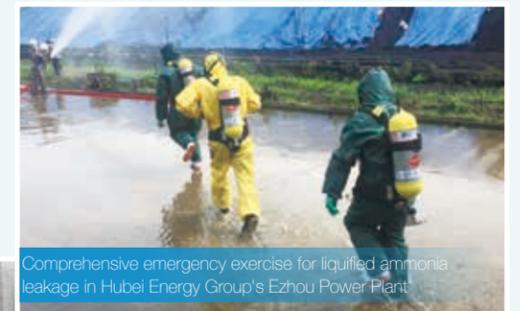
Environmental Risk Management

In the process of project planning, design, construction and operation, CTG identifies environmental risk factors in water bodies, atmosphere, acoustic pollution, land and energy/resource consumption. According to the scale and impact of pollution, the implementation of environmental protection laws & regulations, the consumption of energy & resources and the amount of energy & resources that can be saved, the important environmental risk factors are screened out, and the management strategies for various environmental risks are formulated. In 2018, no major environmental pollution incidents were caused by CTG, and the environmental risks were generally controllable.

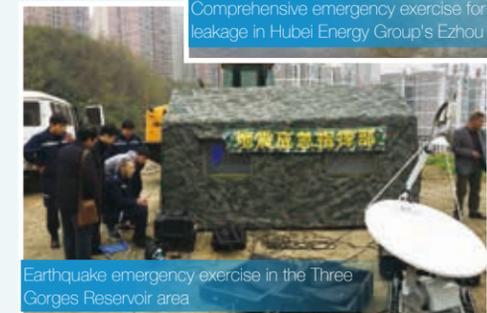


Emergency Management System

CTG has established and improved its emergency management system, improved its emergency management organization, carried out emergency plan management in accordance with the principles of territorial priority, graded responsibility, differentiated guidance, comprehensive coordination and dynamic management, organized training and drilling for emergency plans, and improved its ability to deal with major environmental risks. According to CTG's emergency management system, each entity establishes its own comprehensive emergency plan, special emergency plan and on-site disposal plan, forming a comprehensive emergency plan system at every level and in each part of the Corporation. In 2018, CTG issued its Emergency Plan for Environmental Emergencies and transmitted it to relevant departments.



Comprehensive emergency exercise for liquefied ammonia leakage in Hubei Energy Group's Ezhou Power Plant



Earthquake emergency exercise in the Three Gorges Reservoir area

Process Management

CTG implements environmental management for the whole life cycle, including setting environmental objectives, establishing and improving an environmental management system and implementing environmental protection measures. It also implements closed-loop environmental management and realizes continuous improvement of environmental performance.

Three Gorges New Energy Shidian Power Co., Ltd. carries out whole-process environmental management

In the beginning of 2018, Three Gorges New Energy Shidian Power Co., Ltd. formulated an environmental protection plan and environmental protection measures for the year. In accordance with the requirements of Details of Environmental Protection Management at the Yunnan Branch of China Three Gorges New Energy Co., Ltd. and Environmental Protection Management Methods at Three Gorges New Energy Shidian Power Co., Ltd., a strict implementation of the accountability system of environmental objectives and a conscientious implementation of the national environmental protection system and the provincial environmental protection system of Yunnan was required. The requirements were to protect laws and regulations, strictly implement the provisions of the local government's administrative departments, strengthen the monitoring of the population of Mandarin newt, a local species protected nationally at the second level, and the population of birds in the wind farm area, install informative signs in the obvious areas, and implement various protection measures. In 2018, vegetation was completely restored on all wind turbine platforms and roads. Acceptance of soil and water conservation, environmental protection and environmental protection of transmission lines on wind farms was carried out in an orderly manner to ensure the effective operation of the environmental management system.

Three Gorges New Energy Yuanmou Power Co., Ltd. carries out whole-process environmental management

A leading group on water conservation and environmental protection, which is responsible for the organization and leadership of water conservation and environmental protection, was set up at the beginning of the construction project for the Tianzishan Photovoltaic Power Plant, under the jurisdiction of Three Gorges New Energy Yuanmou Power Co., Ltd. Project supervisors were allocated to supervise the whole process of construction activities, and signed a safety and environmental protection responsibility statement with the construction organization to improve the management and control of water and environmental protection work. During the construction period and trial operation period, the project was implemented while strictly relying on approbation and comments with regards to water and environmental protection, and no complaints related to water and environmental protection were made.

Programming and Planning

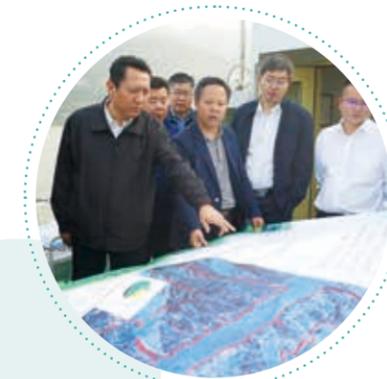
CTG coordinates programs and plans for environmental protection, takes into account the research progress of the corporation's reform plan and the needs of environmental protection work, organizes and compiles the annual environmental protection plan of CTG, promotes the implementation of environmental protection projects, and tracks and manages the plan.

Some key environmental protection plans for 2018

- Management of the special environmental protection plan for 2018
- Establish a special plan for joint protection of the Yangtze River in 2019

Supervision and Inspection

In 2018, CTG focused on the construction of large hydropower plants and the operation of hydro-complex, coordinated the international business, the new energy business and the investment or equity participation business, comprehensively implemented internal supervision and inspection of environmental protection, carried out special targeted environmental protection inspections on construction project sites, checked the completion of major environmental protection inspection and rectification, and completed the annual environmental protection performance appraisal. CTG actively accepted external administrative supervision and inspection, environmental supervision and public supervision, and through the establishment of a public participation platform on the corporation's website, broadened the channels of external supervision and obtained a positive evaluation.



President Wang Lin investigates ecological environment protection projects

Inspection of drainage measures for the Rasuwagadhi project in Nepal

Inspection of the sewage treatment plant of the hydraulic complex project in Upper Atbara, Sudan

Scientific and Technological Innovation

CTG enhanced the understanding of scientific and technological innovation, continuously strengthened the support of science and technology for the whole business of ecological environment protection, and established a long-term mechanism for investment in environmental protection funds. It has participated in international engineering exchanges related to environmental protection, green development forums and other exchange activities to understand the latest international concepts and work experience linked to environmental protection.

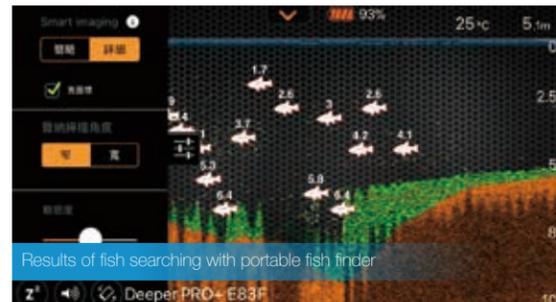
Environmental Protection Research

In view of the different stages of planning, design, construction and operation of various businesses, CTG has comprehensively deepened scientific research on major theories and technologies of environmental protection, carried out research on the operation of the Three Gorges Reservoir under new water and sediment conditions and the influence that cascade reservoir operation has on changes in the ecological environment, and made a number of breakthroughs.

Design of the fish collection and transportation system at the Wudongde and Baihetan HPPs

As an important ecological environment protection measure of the Wudongde and Baihetan HPPs, the fish collection and transportation system aims to restore the connectivity of the river sections of the Wudongde and Baihetan HPPs, ensuring the survival, reproduction and genetic exchange of rare and endemic fish and commercial fish in the lower reaches of the Jinsha River, to maximize the comprehensive benefits of fish resources protection, ecological environment protection and hydropower development.

Aimed at addressing the characteristics of hydropower development of high-dam reservoirs in Southwest China and the ecological habits of typical fish in the lower reaches of the Jinsha River basin, the program "Research on Key Fish Collection and Transportation System Technologies in Wudongde and Baihetan" focused on the major scientific problems of maximizing the ecological service function and rational utilization of water resources in the lower reaches of the Jinsha River, and worked towards solving key technical difficulties of high dam crossing for fish in Wudongde and Baihetan projects. In April 2018, the "Implementation Plan for Research on Key Fish Collection and Transportation System Technologies in Wudongde and Baihetan" was examined by China Three Gorges Projects Development Co., Ltd.. From May to July 2018, a survey of fish



resources was carried out in the river segments at Wudongde and Baihetan. In August 2018, a three-dimensional numerical simulation of the flow regime and flow field downstream of the Wudongde and Baihetan dams was carried out. In November 2018, downstream of Baihetan Dam, physical model tests of the flow regime and flow field, a study of the hydraulic characteristics of the prevalent behavior of fish and a test of the swimming ability of fish were carried out in the lower reaches of Baihetan Dam.

Cooperation and Exchange

CTG actively shared information on the achievements of environmental protection work and even advanced concepts and ideas with other industry actors, strengthened cooperation and exchange with local governments, scientific research institutions, environmental protection organizations and related enterprises, and improved the efficiency of environmental protection work in an all-round way through active exchanges and cooperation.

Participation in activities and communication related to the United Nations Climate Change Conference

In December 2018, the United Nations Climate Change Conference was held in Katowice, Poland. During the conference, CTG's executive vice president, Lin Chuxue, attended the side meeting on "Energy Interconnection: Advancing Energy Transition for Sustainable Development" co-sponsored by the Global Energy Interconnection Development and Cooperation Organization (GEIDCO) and the International Energy Agency (IEA). He made a keynote speech on the theme of "Focusing on Clean Energy, Addressing Climate Change" and, together with high-level representatives of organizations such as IEA, the Organization for Economic Cooperation and Development (OECD), the World Energy Council, the Environmental Defense Fund and the World Energy and Meteorology Council, jointly discussed how energy as a means to addressing climate change.

Signature of a memorandum of understanding with The Nature Conservancy

On October 31, 2018, CTG's Secretary of Party Leadership Group and Board Chairman Lei Mingshan met with the CEO of The Nature Conservancy, Mark Tercek. The two parties had in-depth exchanges about the joint protection of the Yangtze River, ecological protection for hydropower projects, international cooperation, talent training, etc. They signed the Memorandum of Understanding Between China Three Gorges Corporation and The Nature Conservancy (2018—2023). The memorandum involves collaboration in seven main domains: the joint protection of the Yangtze River, ecological dispatching in the river basin, freshwater ecosystems in the Yangtze River, sustainable development of overseas projects with regards to the environment and society, clean energy development, ecological restoration in representative areas, and academic research and publications.



Participation in the "Seventh International Forum on Clean Energy"

In December 2018, the "Seventh International Forum on Clean Energy" was jointly hosted in Macau by the International Forum on Clean Energy (Macau), the ASEAN-China Centre and the ASEAN Centre for Energy. CTG's executive vice president Sun Zhiyu was invited to attend the forum and delivered a keynote speech on "Creating the Pillars of a Great Nation Through Practical Innovation and Protecting the Health of the Yangtze River Through Scientific Operation".



Green Products

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Establishing a clean, low-carbon, safe and efficient energy system is an important strategic arrangement made in the reports of the 19th National Congress of the Communist Party of China. As the main enterprise developing and operating clean energy in China, CTG adheres to the concept of green development, gives full play to the ability of resource integration, investment and financing and the synergistic advantages of the industrial chain, actively develops clean energy such as hydropower, wind power and solar energy, constantly expands the clean energy industry, enhances its green development capacity and contributes to energy security and sustainable human development.

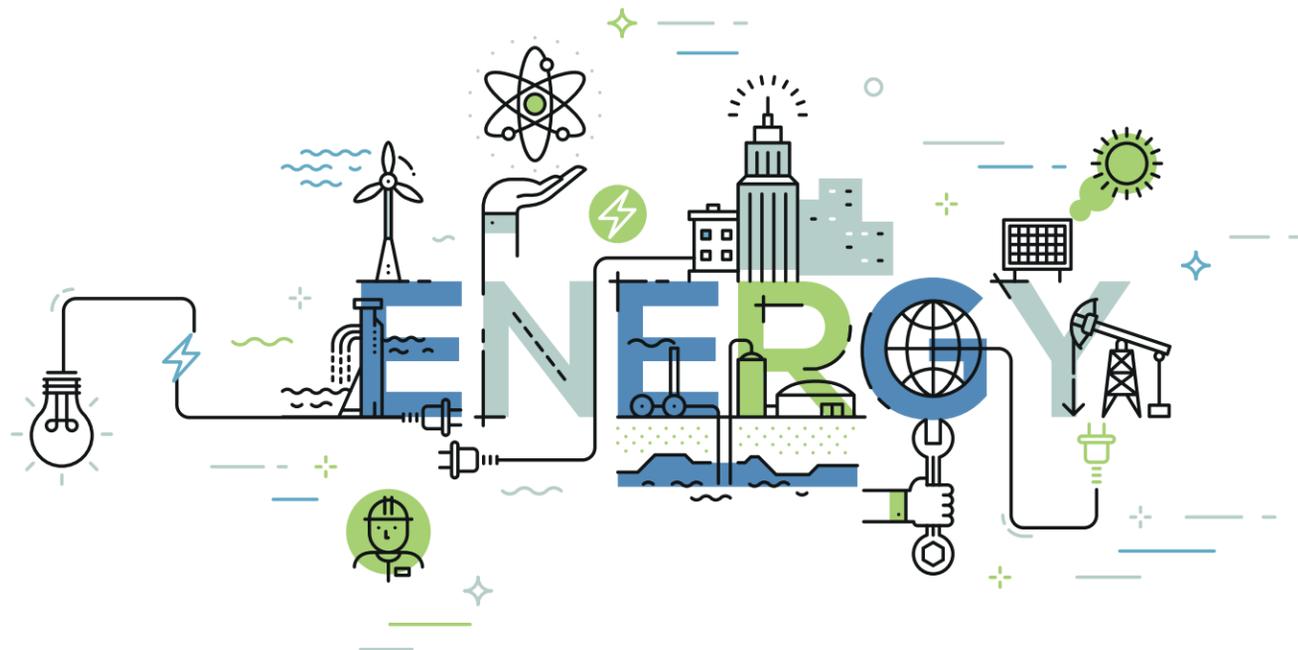
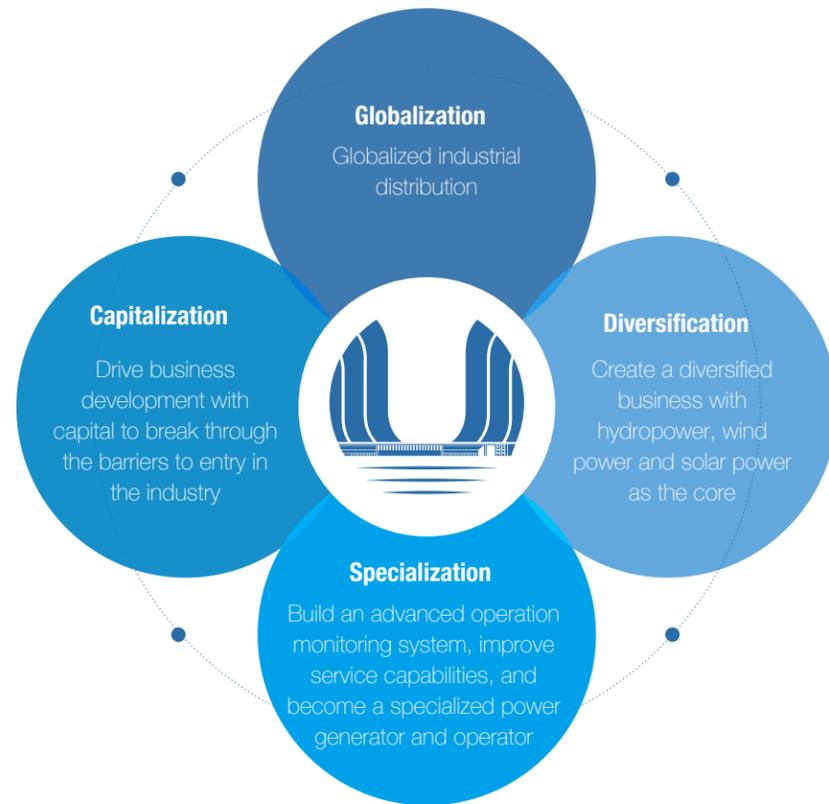


34 / Product Distribution

36 / Investment Output

Product Distribution

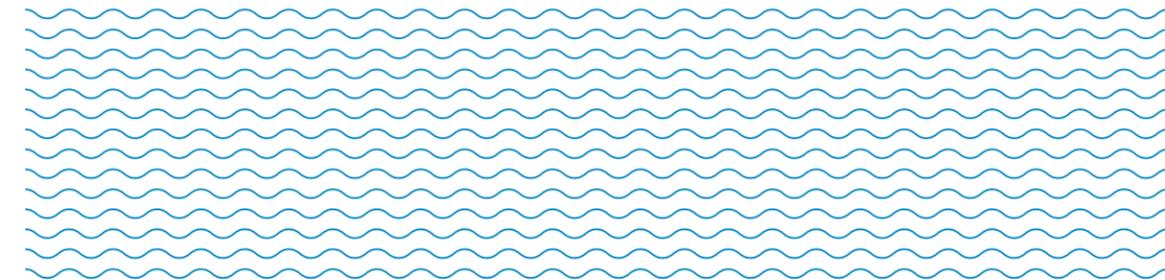
CTG takes hydropower development as its primary business, actively lays out a new energy business with offshore wind power business as its strategic core, explores the practice of replacing fossil energy with clean energy, realizes SDGs, and contributes to the goal of non-fossil energy consumption in China accounting for 15% and 20% of primary energy consumption respectively in 2020 and 2030.



Providing comprehensive hydropower solutions in Africa

River basin planning, construction and operation is one of the core competencies of CTG. It is also an important part of contributing the Three Gorges solutions and wisdom for international partners. China International Water & Electric Corporation (CWE) actively explores the innovative mode of "combination of investment and loan as well as integration of construction and operation". It integrates resources of the Corporation to develop overseas market, drives Chinese manufacturing to integrate into the international market, and explores and promotes third-party market cooperation and infrastructure interconnection of key power grids.

By the end of 2018, CWE had developed the Konkouré River basin in Guinea. Four power plants were planned in the basin. Among these, the construction of Kaléta HPP alleviated the electricity shortage in Conakry, the capital of Guinea, and 11 surrounding provinces, thus making Guinea basically energy independent. Souapiti HPP has been called "The Three Gorges of Western Africa". Once construction is finished, not only can the power demand in all of Guinea be satisfied, but also surplus power can be exported to neighboring countries. At the same time, integrated operation with Kaléta will effectively improve the power output of Kaléta HPP.



Investment Output

In the 25 years since its founding, CTG has developed by leaps and bounds and moved from the Three Gorges to the Yangtze River, from the Yangtze River to the ocean, from Yichang to the whole country, and from China to the world. It has developed into a large multinational group with total assets of RMB 750 billion.



Total power generation in 2018

290.2 TWh



Board Chairman Lei Mingshan and the CEO of Energias de Portugal (EDP), Antonio Mexia, signed a *Cooperation Agreement Between China Three Gorges Corporation and Energias de Portugal*



CTG's President Wang Lin and Voith Group, based in Germany, signed a *Strategic Cooperation Agreement Between China Three Gorges Corporation and Voith Group Regarding Hydropower Projects on the Kwanza River, Angola*



Clean and Low-carbon

2 0 1 8

CTG actively promotes green, low-carbon production, reduces pollution emissions, promotes a low-carbon life and actively carries out carbon trading while scientifically developing clean energy sources such as hydropower, wind power and solar energy, and building a clean, low-carbon, safe and efficient energy system.



40 / Clean Production

43 / Carbon Trading

Clean Production

Wastewater and Sewage Treatment

CTG has innovated wastewater and sewage treatment facilities and technologies, and increased the recycling of wastewater. In 2018, a wastewater treatment facility for concrete tank truck washing was built in Baihetan HPP to achieve zero discharge of construction washing wastewater.

Zero wastewater discharge achieved at the concrete tank truck washing point

In 2018, a concrete tank truck washing point was built at the wild field for Baihetan Project. This is the first time in China that a concrete tank truck washing wastewater treatment facility was built during the construction of a hydropower plant. The treatment process of "sand and gravel separator + DH high-efficiency sewage purifier + plate and frame pressure filtration + clean water reuse" is adopted at the washing point, so that the wastewater from cleaning concrete tank trucks is recycled rather than discharged. By the end of 2018, more than 2,600 tank trucks were washed, producing 68.62 tons of sludge and waste sand. All the wastewater from washing tank trucks in the construction area was collected, treated and reused to achieve zero discharge.



Baihetan concrete tank truck washing point

Floating Dregs Control

The Three Gorges Group of China has actively carried out pollutant discharge management and floating dregs removal work in various hydro-complex areas and areas near dams, supported and cooperated with local governments in the removal, transportation and treatment of floating dregs in reservoir areas, and achieved good results in pollution control and treatment in areas where hydro-complex projects are under construction. In 2018, more than 5,100 boats and more than 22,000 people were dispatched, and over 188,000 cubic meters of floating dregs were salvaged, all of which were disposed of.

Innovative working method: efficient floating dregs cleanup

Faced with many disadvantageous factors during the flood season in 2018, such as high floating intensity in the upstream, a number of large-sized wood in the floating dregs, cleaning difficulty and inadequate peak processing capacity of the floating dreg receiving plant, CTG Operation Administration for River Basin Hydro Complex carefully organized the salvage, transit and treatment of the floating dregs, and for the first time, creatively used winching to achieve long-distance towing and opened the waterway, maximizing efficiency by carrying out teamwork on both banks of the river and on the water. After nearly four months of continuous struggle, all the floating dregs in front of the dam were salvaged and brought on the ground, and environmental protection treatment was carried out. A total of 188,000 cubic meters of floating dregs were salvaged and treated. The amount of cleanup reached the highest record since the accurate



High-efficiency floating dregs cleaning ship of the Hydro Complex Administration Bureau

measurement data were made available in 2010. Floating dregs upstream of the dam don't have any negative impact on the operation of the power plant, ship locks and ship lift or on water quality.

Air Pollution Control

CTG has strictly implemented measures to reduce atmospheric pollutant emissions, effectively controlling and reducing atmospheric pollution caused by the development of traditional energy sources such as thermal power generation. In 2018, the Hubei Energy Group's Phase III Project adopted the world's most advanced near-zero emission technology to minimize the adverse impact of atmospheric pollutants on the environment.

Nearly



Hubei Energy Group's Ezhou Power Plant Phase III Project

Atmospheric Pollutant Emissions

Ultra-low flue gas emission from Hubei Energy Group's Ezhou Power Plant Phase III Project

The total investment in environmental protection for the 2×1,000 MW units in Phase III project of Hubei Energy Group's Ezhou Power Plant is RMB 1.421 billion, accounting for 19.87% of the total investment in the project. The design adopts the most mature ultra-low emission technologies currently available: the emission of nitrogen oxides is strictly controlled thanks to "low nitrogen combustion + SCR flue gas denitrification", the emission concentration of flue dust is brought below 10 mg/Nm³ through "electrostatic precipitation with three chambers and five electric fields + wet electrostatic precipitation", and sulfur dioxide emissions are reduced with "limestone-gypsum single tower double cycle". The latest technology in China is used to realize zero discharge of desulfurization wastewater by using the waste heat of flue gas, so as to achieve the complete reuse and discharge of production wastewater. The overall environmental protection level of the Phase III project has reached or exceeded the strictest domestic standards for emissions. At the same time, cooling towers No. 5 and No. 6 of Phase III project were built in 2018, which greatly reduced water intake and drainage of cooling water, enabled the cascaded utilization of wastewater and effectively negated the impact of the rise of circulating water temperature on the ecology of the Yangtze River.



Ezhou Power Plant, cooling tower No. 6



Ezhou Power Plant, Phase III desulfurization facilities

Solid Waste Management

CTG strictly regulates the recovery and treatment of solid waste in the process of power plant construction and management, classifies domestic waste, collects and transports it centrally, and treats and controls waste dust through spraying and flushing. By the end of 2018, the discarded slag from the Baihetan HPP construction area had been recycled, and the disposal rate of discarded slag was 100%.

Noise Control

CTG has earnestly carried out environmental management in the construction areas of the projects, and strictly managed the systematic noise, construction noise and traffic noise in the construction areas. By arranging the time reasonably, setting up speed limit and no horn signs, and choosing low-noise construction technologies, it has made great efforts to create a comfortable environment in the construction areas and for the surrounding residents.

Innovative noise pollution control method

The Germany company WindMW carries out environmental protection work based on the "Standards for Investigating the Impact of Offshore Wind Turbines on the Marine Environment". During the construction of the Meerwind offshore wind farm project, double-layer bubble curtains were used to reduce noise pollution during piling construction.



Before and after the noise reduction measures

Carbon Trading

Hydropower is a renewable energy with clean, low-carbon "genes". While actively promoting the construction of a green, low-carbon, safe and efficient energy system, CTG vigorously carries out carbon emission reduction activities.

CTG Brazil buys REDD+ carbon credits

China Three Gorges (Brasil) Energia Ltda (CTG Brazil) joined the Amazon Rainforest REDD+ project managed by Biofílica and Jari Foundation (greenhouse gas consultants), and purchased a certain amount of REDD+ carbon credits to offset its greenhouse gas emissions by 100%. By providing a "green salary" to community residents around the Amazon rainforest, the project leads community residents to stop or reduce deforestation, and calculates the increase of forest carbon storage as REDD + carbon credits.



CTG Brazil buys REDD+ carbon credits





1 Resource Conservation and Recycling

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CTG actively promotes resource conservation and recycling. Through precise operation management and technological innovation, it continuously reduces energy consumption and material consumption, recycles resources and protects resources to the maximum extent.



46 / Reducing Energy Consumption

46 / Power Generation Increase

Thanks to Water Saving

47 / Recycling

Reducing Energy Consumption

CTG applies the principle of economy throughout its business cycle, vigorously implements upgrading projects with energy-saving technology, promotes energy conservation and operation cost savings, and creates comprehensive economic and environmental value.

Ezhou Power Plant upgrading project with energy-saving technology

Following the development of thermal power technology, Ezhou Power Plant has continuously carried out research on the economic operation of generating units, equipment upgrading and technological innovation, and implemented many energy-saving technical upgrading projects, such as air preheater sealing upgrading, high-voltage motor frequency conversion upgrading, coal mill unit consumption reduction, secondary coal blending in raw coal bunkers, coal level measurement upgrading in coal mills, etc., optimizing production targets. At present, the standard coal consumption is 20g/kWh lower than that at the launch of the plant. Many economic and technological indicators of the generating unit are in the forefront of the province's thermal power, achieving clean coal-fired production, a higher energy conversion efficiency, and a cleaner and sustainable energy supply.



Overview of phases I, II and III of Hubei Energy Group's Ezhou Power Plant

Power Generation Increase Thanks to Water Saving

CTG has adhered to lean production, strengthened lean management and precise dispatching of water, wind and solar energy resources, and strived to improve resource utilization. In 2018, CTG increased power generation by 9,930 GWh, thanks to water saving.

The increase in power generation thanks to water saving in cascade hydropower plants in the mainstream of the Yangtze River reaches a new record

By reinforcing water and rainfall regime gathering capabilities, through integrated operation of cascade reservoirs, by carefully carrying out operation with real-time optimization and by strengthening external contacts and cooperation, CTG's power generation has reached a new historic record. Power generation in 2018 was increased by 9,930 GWh thanks to optimal utilization of water resources.



Scientific dispatching to optimize the utilization of water resources

Recycling

CTG strives to strengthen the recycling of resources through advanced treatment processes and technological means, maximizing resource conservation.

Xiangjiaba HPP takes the lead in promoting the recycling of topsoil resources

About 600,000 cubic meters of surface soil resources were collected and stored during the preparation period for the construction of Xiangjiaba HPP, and could be used for greening and covering soil during the construction period, effectively protecting soil and water resources, and reducing the damage to vegetation and soil erosion on the surface of other places. This method has very high economic benefits and ecological and environmental protection benefits.



Greening and earthing of the construction area



Ecological Protection 2018

CTG proceeds from the overall interest of ecological environment protection and economic development, continuously deepens CTG's ecological protection brand, innovates species protection technology, and actively implements ecological protection and restoration measures to promote the harmonious coexistence of business and the environment, humans and nature.



50 / Species Protection

50 / Habitat Conservation

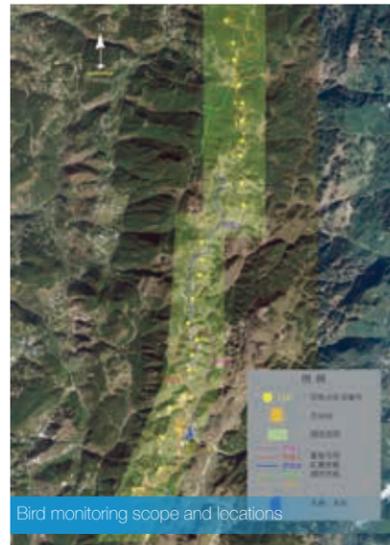
51 / Ecological Dispatch

Species Protection

CTG continuously works on the protection of key species on construction and operation sites. Artificial reproduction and release have been carried out for 14 consecutive years to promote the recovery of rare and endemic fish stocks. In order to protect the terrestrial biodiversity, we have combined ex-situ conservation of rare plants in the field, conservation of germplasm resources in botanical gardens, research on seedling breeding and terrestrial ecological restoration to carry out plant protection work in the dam reservoir areas, and built a dedicated rare plant conservation base at the Three Gorges with a wide variety of species and vast areas in China. Overseas, CTG has been engaged in the conservation of rare animal and plant species for a long time to promote biodiversity.

Bird protection during the construction of wind farms

The impact of wind farm construction on birds mainly includes noise disturbance, habitat change and human disturbance. During the construction of a wind farm, China Three Gorges New Energy invited ornithology specialists and carried out an ad hoc survey of the distribution, quantity and habitat of bird populations and Mandarin newts, monitored the changes in the quantity and distribution of specific birds in the area, estimated the impact of wind farm operation on birds and Mandarin newts according to the results of the survey, and reduced as much as possible the noise pollution and habitat change generated by the construction and operation of the wind farm. It played a regulatory role to eliminate human interference and protect the life and reproduction of birds.



Bird monitoring scope and locations

Habitat Conservation

CTG is committed to building a model of ecological protection, reducing or eliminating adverse impacts on the ecological environment, and effectively improving the condition of regional ecosystems.

CTG Brazil implements Cerrado (Brazilian savanna) restoration projects

In order to compensate for or reduce the damage caused to vegetation by reservoir impoundment, CTG Brazil has been committed to the protection and restoration of the natural environment. One of the projects is to provide support for the natural park in Pedregulho to protect the Cerrado savanna, one of Brazil's most endangered ecosystems.



The Brazilian savanna before and after the restoration project

Ecological Dispatch

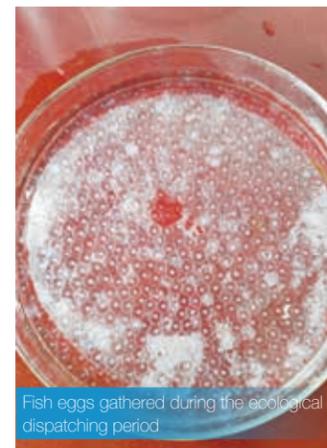
The upper reaches of the Yangtze River are one of the areas with the highest biodiversity in China, and distributed with many species of rare and endemic commercial fish. In order to reduce or eliminate the adverse effects of the operation of large and medium-sized reservoirs on the ecological environment, CTG has implemented ecological dispatching. By adjusting the mode of reservoir operation, the volume and temperature of discharged water can match in time and space with the ecological and environmental water needs of upstream and downstream reaches. By controlling the ecological flow and water temperature, fish proliferation can be promoted and the water ecosystem can be improved.

Total number of eggs of the four major breeds of Chinese carp during the ecological dispatching experiment of Yidu section

1.33 billion eggs

Implementing triple-reservoir integrated ecological dispatch test to promote fish spawning

The upper reaches of the Yangtze River are home to rare and unique commercial fish such as the paddlefish, Yangtze sturgeon, mullet, *Coreius guichenoti* and the imperial flower loach. 1.8 km downstream the dam site of Xiangjiaba HPP, the National Nature Reserve for the Rare and Endemic Fishes in the Upper Reaches of the Yangtze River, is inhabited by 66 species of endemic fish and 3 species of rare fish. In order to reduce or eliminate the adverse effects of reservoir operation on ecology and the environment, Three Gorges HPP, Xiluodu HPP and Xiangjiaba HPP carry out integrated ecological dispatching and the outflow of cascade reservoirs is continuously increased by means of dispatching. A continuous flood process is thus maintained in the Yangtze River section downstream Yibin, creating suitable hydrological and hydraulic conditions for fish reproduction and promoting the reproduction of drifting egg-producing fish in the Chuanjiang River and the middle and lower reaches of the Yangtze River.



Fish eggs gathered during the ecological dispatching period



Xiluodu stoplog lowering operation



Popularization of Environmental Protection Concept

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CTG systematically refines its experience in environmental protection, strengthens internal and external communication, popularizes environmental protection concepts, and organizes environmental protection training for all employees. It actively shares experience in environmental protection with stakeholders, promotes public awareness of environmental protection, and promotes the environmental protection capabilities of stakeholders.



54 / Environmental Protection Training

55 / Low-carbon Life

55 / Energy Saving Publicity

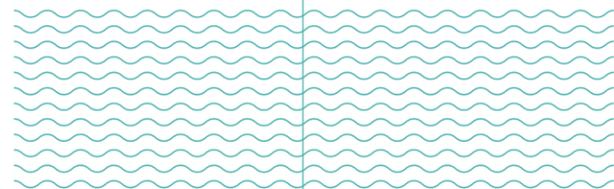
56 / Environmental Protection
and Public Benefit Activities

Environmental Protection Training

In order to improve the overall level of environmental management, CTG actively carries out various forms of environmental protection training and publicity activities, and enhances the legal awareness, sense of duty and active consciousness of all employees involved in the construction of an ecological civilization and in environmental protection.

China Three Gorges New Energy organizes "Environmental Protection Week" Activities

China Three Gorges New Energy organized "Environmental Protection Week" activities for its branches and project companies around the country. They publicize posters, organize the study of environmental protection-related laws, regulations and system documents, and learn to sing the theme song "Make China More Beautiful". It carried out special environmental protection inspections and organized environmental protection practice activities, in order to make all staff aware of environmental protection and have them attach importance to environmental protection, invest in environmental protection, take active action and participate actively, to jointly protect our beautiful homeland.



Wildlife protection publicity at CWE's TP Hydropower Project in Ecuador

Low-carbon Life

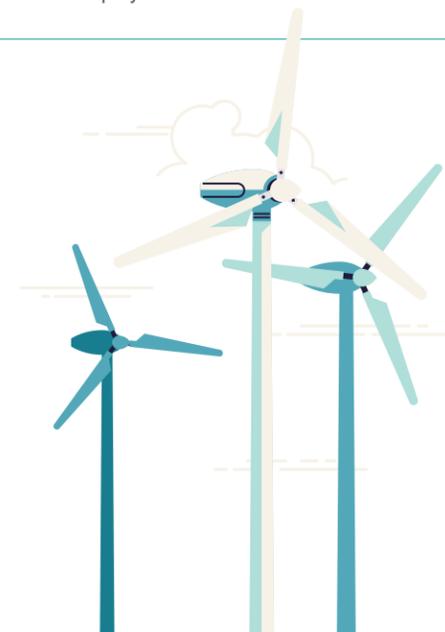
CTG actively advocates for low-carbon life, organizes departments and subordinate units to respond to the call of the United Nations "World Environment Day" and carries out a series of activities for "Environmental Protection Week" to contribute to the construction of a "beautiful China".

Active participation in the "Earth Hour" lights-off event



Publicity campaign for "Earth Hour" at TGHPP

On the evening of March 24, 2018, the Three Gorges HPP actively responded to the call of the World Wildlife Fund (WWF) to organize the "Earth Hour" lights-off event by extinguishing the tailrace lighting and dam rendering lighting of TGHPP. The lighting extinguishing time was from 8:30 to 9:30 p.m. At the same time, "Earth Hour" posters were posted in production and office areas to advocate for a low-carbon, green life towards all employees.



Energy Saving Publicity

CTG, through activities such as Energy Conservation Week, has gathered consensus from all sides and encouraged its employees and the surrounding population to gain a firm awareness of energy conservation and consumption reduction, learn and master the knowledge and skills necessary for energy conservation and consumption reduction, and put energy conservation and consumption reduction into practice at work and in life. Meanwhile, CTG has actively promoted energy-saving products and technologies to improve the level of energy utilization, and initiated a good atmosphere in which everyone participates in and contributes to energy conservation.

Saving and recycling publicity in Northeast Branch of China Three Gorges New Energy Corp.

The Northeast Branch of China Three Gorges New Energy Corp. actively practices the theme of China Environment Day: "For a beautiful China, I am taking action". It spreads publicity by hanging banners, posting posters and scrolling displays on LED screens, so as to cultivate the staff's sense of economy, create a cultural atmosphere of environmental protection in an all-round way, and fully motivate the whole staff to participate.



China Three Gorges New Energy's energy saving and environmental protection flyers 借我们的能源

Environmental Protection and Public Benefit Activities

CTG has long been committed to the promotion of environmental protection concepts. It has continued to carry out a number of historical and brand-related environmental protection and public benefit activities such as Chinese sturgeon releasing. At the same time, it has strengthened daily tree planting, environmental protection publicity and other work to transfer the environmental protection and public benefit concepts to the operation sites, promote the active participation of the public, and contribute to the protection of the local environment.



CWE's hydropower project, Uganda Isimba Hydro Power Plant, carries out joint tree planting activities with NAKAKANDWA Primary School

"Running for the Green" raises the public's awareness of environmental protection

In the town of Ilha Solteira, the state of Sao Paulo, near Ilha Solteira HPP, CTG Brazil sponsored the "Running for the Green" activity, which attracted around 10,000 participants. Through this activity, the public's awareness of biodiversity conservation and enthusiasm for participating in sports activities was actively fostered, and the comprehensive value of social and environmental protection was enhanced.



"Running for the Green" activity supported by CTG Brazil in the town of Ilha Solteira, Sao Paulo, Brazil

Practical activity of public benefit during summer: "Global Ambassadors for the Three Gorges' Chinese Sturgeons"



Winning the Silver Medal of the Fourth Chinese Youth Volunteer Service Project Competition

In order to protect and raise awareness about the Chinese sturgeon, CTG and the representative office of the United Nations Development Programme in China jointly sponsored the "Global Ambassadors for the Three Gorges' Chinese Sturgeons" campaign. The plan was to select 300 young volunteers (also known as ambassadors) from 200 universities in 100 countries around the world, and to take "Chinese sturgeon protection" as a starting point to understand CTG's efforts and work for ecological and environmental protection. The activity mainly included scientific knowledge learning and team practice related to the Chinese sturgeon. Volunteers could participate in Chinese sturgeon releasing activities and science popularization along the Yangtze River in depth, so that they can publicize in their respective universities in the future and disseminate CTG's concept of ecological protection all over the world. By raising awareness about Chinese sturgeon protection work, the activity deepened the world's understanding of CTG's sustainable development concepts and the work it is carrying out, and the story of China and Three Gorges has been told.



Chinese sturgeon ambassadors volunteers DNA extraction test

Studying activity at the Three Gorges Dam

In 2018, CTG held an activity called "Borrowing the power of nature to protect the green hills and clear water-Student assistance activity at the Three Gorges Dam Studying Base", involving 170 students, teachers and parents from Yichang City, Hubei Province. Participants completed a research activity called "I am a defender of environmental protection" and a fundraising campaign called "Protecting water resources". By transmitting water-saving and water protection knowledge to tourists in various forms and collecting environmental protection funds, we can raise awareness about water saving, water protection and river protection while contributing to the Water Environment Fund program of the China Environmental Protection Foundation.



Studying activity at the Three Gorges Dam

Environmental Protection Performance 2018



60 / Environmental Monitoring

61 / Monitoring Result

Environmental Monitoring

Within the scope of hydropower, wind power, solar energy and other business, CTG has carried out environmental monitoring according to environmental assessment reports and environmental assessment approval documents. Ecological and environmental monitoring systems have been established for the Three Gorges Project on the Yangtze River, the lower reaches of the Jinsha River, the National Nature Reserve for the Rare and Endemic Fishes in the Upper Reaches of the Yangtze River, and relevant waters. The system covers the river basins and affected areas in all the places within China where CTG has built large-scale water conservancy projects. It mainly conducts long-term monitoring and evaluation of the environmental conditions of the construction areas and basins, the areas where hydropower plant operation has an impact on the ecological environment of the basin, and the effect of environmental protection measures, and manages the real-time data informatically. In 2018, CTG orderly carried out monitoring of algal blooms in the reservoir areas and their tributaries, water environment in the main stream and tributaries of the reservoir areas and natural population resources of Chinese sturgeon, with normal monitoring data.



Landfill monitoring



Air quality monitoring



Seawater sampling tests



Water quality tests



Wildlife monitoring by CTG Brazil

Monitoring Result

Water Environment Quality

Mainstream water quality and environment in the Three Gorges Reservoir area

In 2018, the water quality of the mainstream and tributaries in the Three Gorges Reservoir area was excellent, with 98% of the water quality sections at class II-III in the mainstream, and the water quality remained stable.

98%

Water quality sections at class II-III in the mainstream

Water environment quality in key tributaries in the Three Gorges Reservoir area

In 2018, CTG carried out water environment monitoring of key tributaries in the reservoir area, conducted monthly inspections of the water environment of key tributaries in the reservoir area, and learned and grasped the nutritional status of key tributaries in different stages of reservoir operation, such as water impoundment and water drawdown. The monitoring results show that: Among the 12 key tributaries in the reservoir area, 26% were eutrophic, which was lower than the number in the same period last year (41%). Spatially, the proportions of eutrophication in the tributaries of Chongqing and Hubei reservoir sections are 30% and 18%, respectively. Compared with the same period in 2017 (45% in Chongqing and 35% in Hubei reservoir sections), the proportions of eutrophication in the tributaries under monitoring are significantly reduced. In terms of time, the eutrophication status of tributaries mainly occurred during the flood season and drawdown period, with the highest proportion of eutrophic tributaries (75%) in July.

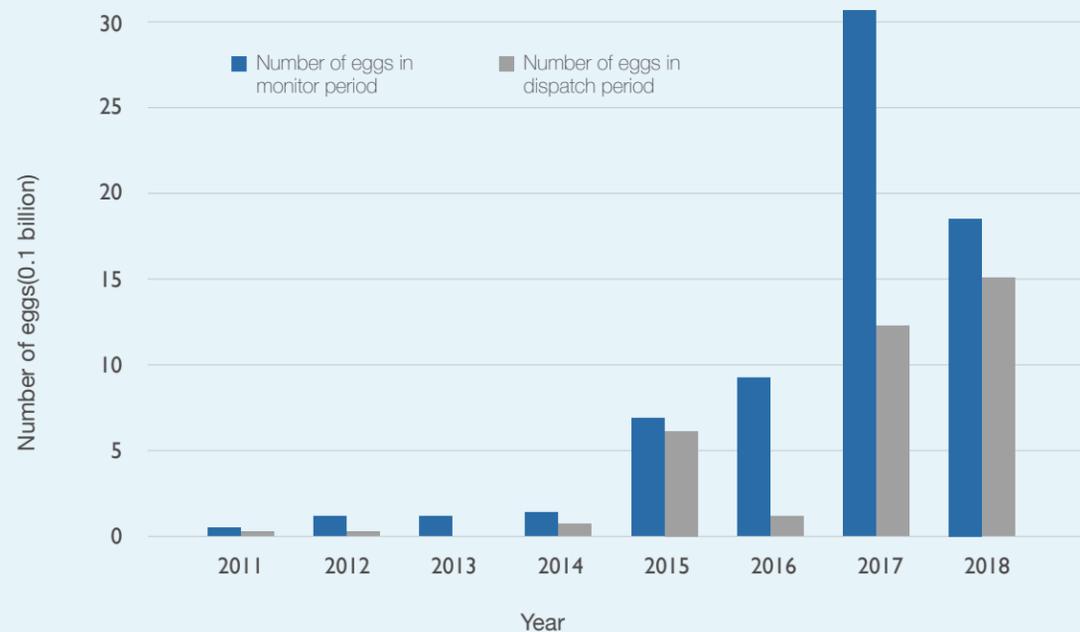


Status of the Aquatic Ecosystem

Rare and endemic fish

In 2018, 19 specially designated fish species were detected in the upstream of the Yangtze River (17 species in 2017), with a total of 1,473 fish. In the monitoring area in the lower reaches of the Jinsha River basin, 15 designated species from the upstream of the Yangtze River were detected, with a total of 624 fish. Designated species from the upstream of the Yangtze River were detected in 13 of the 16 river segments under monitoring, with only 3 segments making no detections. The biggest number of endemic fish species was found in the Yalung River Estuary, with 6 species, followed by the Yuanmou and Pudu River Estuaries, with 5 species, and the lowest number in the Jiaopingdu, Xiaojiang and Suijiang River Estuaries, with only 1 species.

Annual number of eggs for rare and endemic fish



Important Commercial Fish

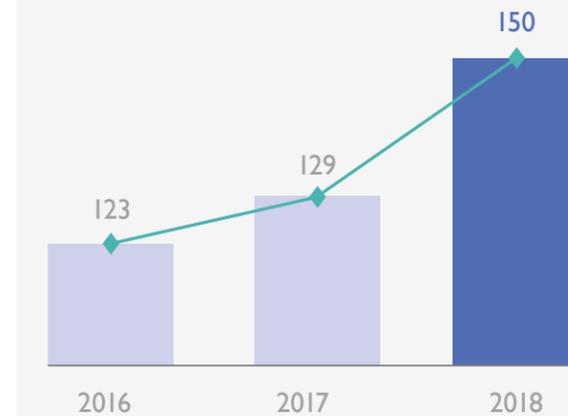
In 2018, 84 species of fish were detected in the lower reaches of the Jinsha River basin. The main catches in the whole section were *Silurus meridionalis* (Chinese large-mouth catfish), *Coreius guichenoti*, *Hemiculter tchangii*, *Spinibarbus sinensis*, carp, *Liobagrus marginatus*, *Leiocassis longirostris*, *Schizothorax prenanti*, *Pelteobagrus nitidus* (shining catfish) and *Rhinogobio ventralis*.

Water Temperature

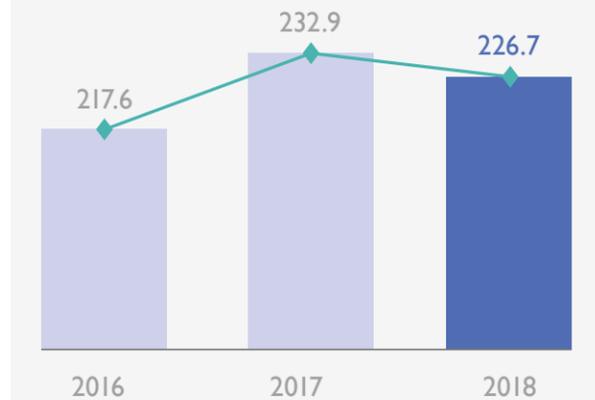
From mid-late January to early May 2018, the average discharge temperature of Xiluodu Reservoir increased by about 0.4 °C during the implementation of the ecological dispatch experiment with stratified intake.

Benefits of Water Replenishing and Flood Control

Total amount of impounded flood water (0.1 billion cubic meters)



Amount of water supplied to the middle and lower reaches of the Yangtze River during the dry season (0.1 billion cubic meters)



Reproduction and Release

2018

258000

Quantity of rare and endemic fish released at CTG's release station

3600000

CTG Brazil has a complete set of procedures for fish reproduction, transportation and release, and a number of fish fry are released annually in the larvae hatchery at the Salto Grande Hydroelectric Power Plant.

Outlook for 2019

In 2019, CTG actively applied the concept of ecological priority and green development. From the whole life cycle of hydropower project planning, design, construction and operation, ecological environment protection was given overwhelming priority, and ecological environment protection measures were fully implemented, which played an active role in promoting ecosystem restoration in the Yangtze River Basin.

In 2019, CTG will conscientiously fulfill the new mission entrusted to it by the Party and the state, actively serve the major national strategies, play a key role in the joint protection of the Yangtze River, and actively explore new avenues for ecological protection and restoration. In order to effectively ensure that the corporation plays a key role in the joint protection of the Yangtze River, CTG has set up five platforms, including Yangtze Ecology and Environment Co., Ltd., the Yangtze River Green Development

Investment Fund, the Yangtze River Ecological and Environmental Protection Industry Association, the Yangtze River Ecological Environment Engineering Research Center, and special funds. Taking urban sewage treatment as the entry point, investment and construction were carried out following the principles of “integration of the riverbank (lakeshore) with the plant network”, “recycling of resources and energy”, and “whole cycle of construction and maintenance”. This facilitates the collection, treatment, compliance with standards and comprehensive utilization of urban sewage. During the construction of hydropower projects in Wudongde, Baihetan and Changlongshan, environmental protection and soil & water conservation will be fully implemented, in order for construction and environmental protection to go hand in hand during planning, construction and restoration, and to ensure high-quality construction of green ecological projects.

In 2019, CTG will continue to optimize the integrated operation of the cascade reservoir system, further enhance the flood control capacity of the Three Gorges Project, so that the Three Gorges Project can play its key role in flood control and disaster reduction in the Yangtze River Basin. Discharge will be increased during the dry season to meet the needs of domestic water and production water as well as ecological needs in the middle and lower reaches of the river. The development of ecological dispatching will be actively explored in order to enhance the services provided by cascade hydropower plants to the ecosystem.

In 2019, CTG will firmly implement the strategic objectives of “Great Scenery at Three Gorges” and “Leader of Offshore Wind Power”, explore the coordinated development and scientific dispatching of multiple energy sources, build the largest clean energy corridor along the Yangtze River, and inject strong impetus into the ecological priority and green development of the Yangtze River Economic Belt.

2019 is the 70th anniversary of the founding of the People’s Republic of China. CTG will resolutely practice the concept of ecological priority and green development, strive to play a key role in the joint protection of the Yangtze River, realize the harmonious unity of engineering and nature, and greet the seventieth birthday of the motherland with outstanding achievements.



Third-party Comments

Green development with ecology as the priority is the only way to go for enterprises, and it is also the right way to promote sustainable development. The annual reports on environmental protection issued by CTG for 14 consecutive years not only reflects its systematicness and sustainability in environmental protection, but also acts as a demonstration and a driving force to promote the green development capability of other enterprises.

Focusing on the era's theme: green development. The report focuses on the new trend of green development since the Nineteenth National Congress, actively responds to the hot topics of social concern, and sets up the topic of "A good start for the joint protection of the Yangtze River Protection". It shows that CTG plays a key role in joint protection of the Yangtze River from the four aspects of "top-level design, action, innovative model and river basin protection". We will accelerate our new efforts and achievements in building a world-class clean energy provider.

Paying attention to the hot topics of sustainable development. We will focus on stakeholders' concerns, systematically show environmental protection issues of concern to stakeholders such as clean production, low-carbon recycling and ecological protection, highlight the best environmental protection practices such as "ecological dispatching" and "near-zero emissions", show the willingness of CTG to communicate transparently with stakeholders and respond sincerely to them, and put our words into action.

Fully demonstrating the concept of environmental protection. The main part of the report systematically demonstrates the management, practice and performance of CTG in environmental protection. The logical level is clear and easy to read. The report is rich and detailed. With a large number of data and abundant cases, it fully embodies the environmental protection concept of "whole business, whole river basin and whole process" of CTG.

It is hoped that CTG will play an even more important role in environmental protection, set an example for enterprises in green development, and lead more enterprises to create economic value to improve human well-being and social equity, while greatly reducing environmental risks and ecological scarcity.

Qian Xiaojun

Professor at the School of Economics and Management, Tsinghua University
Vice-president of Schwarzman Scholars, Tsinghua University
Director of the Research Center for Green Economy and Sustainable Development, Tsinghua University

The *2018 Annual Report on Environmental Protection of China Three Gorges Corporation* is a high-quality report dedicated to environmental protection. The report is rich in content and clear in structure. It shows the highlights and practices of CTG in environmental protection in 2018, reflects the strategic orientation of accelerating the establishment of a world-class transnational clean energy provider with a strong capacity for innovation and global competitiveness, and plays an important role in promoting the sustainable development of clean energy at home and abroad.

Focusing on the joint protection of the Yangtze River. At the beginning of the report, the main roles of CTG in the joint protection of the Yangtze River from top-level design, action, innovative model and river basin protection are introduced in the form of special topics. The ecological restoration and environmental protection of the Yangtze River Economic Belt are actively promoted through such key measures as overall promotion of mechanism construction, the construction of five major physical platforms, the execution of pilot projects, and hand-in-hand cooperation with partners.

Demonstrating comprehensive environmental management. The report introduces in detail the environmental protection management pattern of "whole river basin, whole life cycle, open sharing, scientific and technological innovation" from five aspects: organizational structure, management system, process management, scientific and technological innovation and communication & cooperation. It shows that CTG has given priority to resource conservation and ecological environment protection in the whole process of investment, construction and operation of clean energy.

Putting multi-angle environmental protection into practice. Based on clear data and abundant cases, starting from environmental issues such as green products, clean, low-carbon, saving, recycling, ecological protection and raising awareness, the report highlights the concept of "ecological priority, green development" put into practice by CTG in light of its own business characteristics, demonstrates the practice of ecological environmental protection, and explores a new model for ecological environment restoration that can be replicated and popularized.

Xue Dayuan

Professor at the College of Life and Environmental Sciences, Minzu University of China

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Readers' Feedback

In order to improve CTG's environmental protection work and enhance the corporation's ability for and level of green development, we hope to read your comments and suggestions. Please spare the time to give us your valuable opinions on our work and report. Thank you!

1. How would you evaluate the Annual Report on Environmental Protection of CTG in general?
 Great Good Average
2. How well do you think CTG has been doing in proactively serving government and customers?
 Great Good Average Bad I don't know
3. How well do you think CTG has been doing in protecting the environment and promoting sustainable development?
 Great Good Average Bad I don't know
4. How well do you think CTG has been doing in communicating with stakeholders?
 Great Good Average Bad I don't know
5. Do you think that the Report is able to reflect the major environmental influences CTG has had?
 Yes Maybe No
6. What do you think of the clarity, accuracy and completeness of the data and indices disclosed by the Report?
 Very High High Average Low Very Low
7. Does the layout of the Report help your reading?
 Great Average Bad
8. You are welcome to give your opinions and suggestions about environmental protection work of CTG and the Report here:

Note: Please tick ("√") the corresponding circles ("○") and mail this page to the following address:

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For online opinions, please send them to wang_pengyuan@ctg.com.cn, or you can leave your valuable opinions on the official website of CTG at <http://www.ctg.com.cn/hjnbdc/index.php>.



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