



中国三峡国际股份有限公司
China Three Gorges International Limited



CLEANER ENERGY BETTER LIFE

WE PROVIDE GREEN ENERGY, WE GENERATE POSITIVE ENERGY

ENVIRONMENTAL, SOCIAL & GOVERNANCE REPORT 2022



Cover Design Interpretation:

The cover design focuses on the main business and sustainable development, integrates with ESG issues and figuratively echoes with the report theme of "Cleaner energy Better life".

The main visual design of the cover adopts a combination of business, environmental and social images, reflecting that CTGI utilizing the clean energy business to serve the sustainable development of the economy, environment and society together with stakeholders, promoting harmonious coexistence between humans and nature, and meet people's expectations for a better life.

We are now in an era full of challenges,
with climate change being one of the most critical issues of our time.
In order to respond to this evident climate emergency,
we aim to deliver 100% green energy to the planet,
using natural resources of water, wind, sun and other types of renewables.

It is also an era of collaboration.
We understand better than ever the meaning of a shared future.
Working with all the stakeholders,
we're maximizing our contribution to sustainable transformation
while minimizing additional emissions.

To promote better life with cleaner energy
is the pursuit that unites our global teams,
and the brief that we are dedicated
to energy transition for a net-zero carbon future.



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Dear reader

Annually published in line with the financial year, this Report is the second sustainability/ Environment, Social and Governance (ESG) Report of China Three Gorges International Limited (CTGI) since 2021. Targeting CTGI, registered in Hong Kong, and its subsidiaries around the world, this Report mainly covers the period from January 1 to December 31, 2022.

With a great pleasure, we are willing to share this ESG Report with our stakeholders. It is organized around the three ESG pillars, namely our corporate governance, environmental management and social supports, and it provides a comprehensive, forward-looking vision of CTGI, our purpose, ambition, strategy, objectives, governance and value creation. This report sets out the progress, results and status of CTGI's sustainability performance in 2022, as well as our management approach and the challenges we face.

Criteria and Indicators

This Report has been prepared in reference to three key reporting frameworks: (1) the Stock Exchange of Hong Kong's Environmental, Social and Governance Reporting Guide, (2) the 2021 Global Reporting Initiative (GRI) and (3) the United Nations Sustainable Development Goals (SDGs).

In light of these frameworks, our indicators are selected based on material themes. For the convenience of reading, qualitative information and quantitative data are reported in the body text.

Reporting Scope

The reporting scope comprises CTGI headquarters and its global subsidiaries at all levels, unless otherwise indicated. To ensure consistency of the information data, information regarding some known events or activities previous 2022 and of 2023 are also included.

Data Source

The data cited in this Report derives from internal official documents and relevant statistics of CTGI.

The exchange rates adopted in this Report are 1USD=7CNY, 1USD=7CNY, 1USD=6.3757CNY and 1USD=6.9646CNY for Year 2019, 2020, 2021 and 2022 respectively .

Reliability Assurance

Information disclosed in this Report is verified, reliable, and timely and is aligned with CTGI's sustainability strategy. The Board of Directors of CTGI guarantees that there are no misrepresentations, misleading statements or major omissions in this Report.

Report Access

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Please enjoy your reading

Message from Chairman



The Year 2022 was a challenging year with great turbulence for the energy sector. The effects of climate change and current global energy crisis have highlighted the importance of developing renewable energy and the urgency of energy transition. As a multinational clean energy group, CTGI also noticed this situation and continued developing our generation capacity to meet the upsurging energy demand. By the end of 2022, we have reached a total installed capacity of 18.83GW, almost all are clean.

We pay high attention to the targets of The Paris Agreement and keep moving towards net zero by providing reliable and affordable clean energy to the world as well as embedding sustainability in our business and management performance.

The Year 2022 also marked a new beginning of CTGI. Throughout the year, we have carried out three transformations to guarantee our firm steps to the UN's 17 Sustainable Development Goals. First, we have incorporated a bold ESG ambition in our strategy that focused on environmental protection, social development and people's well-being. We have worked out an ESG Action Plan as well as two ESG guidelines for M&A and greenfield projects respectively. Second, we have constituted a diverse and efficient Board of Directors with 11 rich-experienced and professional directors, which strongly drives the Company towards energy transition. The Board has established the ESG and Related-party Transaction Committee, headed by Ms. Liu Yangyang, our female director, to look after the key issues, themes and actions of ESG. Third, we have carried forward our digitalization journey by introducing ERP (Enterprise Resource Planning) system into the Company's operation and management, which will help us to record, analyze and optimize our business in a more sustainable model.

The Year 2022 also marked the Company's progress towards sustainable development. We were awarded 2022 Europe's Best Renewable Energy Company and 2022 Germany's Most Innovative Energy Plant by the World Economic Magazine, indicating high recognition for our professional operational development in the industry. Our projects in Pakistan and Brazil were enrolled as the best cases in the Second and Third Global Poverty Reduction Case Collection Activity respectively, reflecting our fulfillment of the commitments to our stakeholders.

We could not make the aforesaid achievements alone, without the contribution and dedication of our talented global teams. We highly appreciate our shareholders, customers, suppliers, regulators, partners and local communities for your constant trust and supports on our mission and development journey. CTGI is poised to collaborate with more partners and promote global energy transition based on common principles and values.

A clean, safe, reliable and affordable energy future is built on actions we take today. Looking ahead, we will continue to safely deliver high-quality clean energy and create exceptional and sustained value for all. That's our approach to propel the journey towards a livable and sustainable future: Cleaner Energy, Better Life.

WU Shengliang

Chairman of the Board of Directors

The Year 2022 saw a series of unprecedented global issues, while the movement of net zero commitments by countries, businesses and investors constituted an important step in the right direction.

In the context of the global energy transition trend, CTGI revised the Company's Business Plan (2022-24) which now comprises ambitious ESG goals and targets. The core of our business strategy is to support and promote the transition to a low-carbon economy whilst enabling the security of energy supply.

Guided by this latest Business Plan and with the unremitting efforts of all employees worldwide, we have achieved remarkable results in 2022. We continuously supplied 31.636TWh clean energy globally, especially the 720MW Karot Hydropower Project successfully entered into commercial operation, marking the largest HPP in Pakistan in the year that entered COD, which benefits 5 million local people by providing affordable clean electricity. We remained the second largest private power generation company in Brazil while initiating to diversify our assets' portfolio through investment and development of wind and solar. We have also become the fifth largest renewable generation company in Spain, gaining the recognition in European energy sector. In addition, we have newly expanded our business to Mexico's renewable sector, investing in solar plants and increasing our contribution to the Central American energy transition. All these achievements showed our resilience and the

ability to maintain sustainable growth and ensured our global credit ratings A+, A, and A1 from Fitch, S&P, and Moody's.

The Year 2022 witnessed our active interaction and response to climate change. We have been decreasing our carbon footprints during the year and the clean energy that CTGI generated equals 5,447,427.46 tonnes of CO₂ emission reduction. Our Beijing Office realized 100% green electricity consumption by the end of 2022. In Brazil, we neutralized 100% of direct emissions and received a Gold Seal from the Brazilian GHG Protocol Program for the third consecutive year. Moreover, we accelerated our decarbonization contribution by establishing a New Business Development & Research Center in Portugal to foster latest technologies, in the sector of green hydrogen and energy storage.

This being said, we would not stop there. We have also made our firm steps towards ESG key issues. We continued to enhance biodiversity conservation and have incorporated this into our due diligence process for M&A projects as well as the greenfield projects, covering both construction and operation phases. We insisted on bringing positive impacts and shared value to stakeholders, which resulted in healthier and thriving communities. And we kept on taking care of all our staff's well-being and motivation by building an inclusive working environment that enables their engagement and innovative potential.

I am very proud of the accomplishments we made in 2022, however, we remain aware of the challenges and opportunities ahead. Our entire global team understands the great value of the resource we work with, and the necessity to use it efficiently and responsibly. We will insist our business and management in a sustainable model to deliver valuable environmental, social and economic benefits to all the stakeholders, and we look forward to engaging in empowering the world with clean energy and more than clean energy.

YANG Baihua

Vice President
in charge of ESG



Interview with Chairwoman of ESG and Related-party Transaction Committee of the Board

Q: Why CTGI incorporated ESG into its strategy?

A: CTGI incorporates ESG into strategy stems from its deep-rooted value in sustainability and its ambition to become a globally renewed clean energy group. This integration enables a more active role in global energy transition, facilitates the creation of a prosperous and sustainable society, and allows for better assessment of performance.



Q: What ESG achievements of the Company impressed you most in 2022?

A: I was quite pleased to see much progress we have made in 2022. Besides integrating ESG into our strategy and business model, we also formulated a comprehensive ESG management system headed by the Board of Directors and comprising involvement of the management team, all business units and global subsidiaries, which laid a solid foundation of the Company's ESG development.

Since 2022, the Board has attached great attention to the Company's ESG development. The Board has approved an ambitious ESG Action Plan for 2022-2024 with clear targets and ESG blueprint which would ensure the transparency and verifiability of our journey towards sustainable progress. Guided by the Action Plan, the Company drafted two guidelines for M&A business and greenfield projects respectively, which showed the integration of our ESG principle and management concept into our daily business and management.

I was also deeply impressed by the Company's successful investment of the 720MW Karot Hydropower Station in Pakistan in compliance with the World Bank's performance standards, which marked one of the best ESG practices in Pakistan's energy sector.

Q: Can you explain the Company's ESG goals and targets for 2023?

A: Acting as Chairman of ESG and Related-party Transaction Committee of the Board, I am looking forward to even greater progress in the years ahead. We consider climate change is still the top prioritized ESG issue. We will set up the timetable and pathway of realizing 100% delivery of green power and carbon neutrality (Scope 1 + Scope 2). Meanwhile, we will invest more in technology innovation in order to explore new path towards decarbonization and to bring more positive contribution to the world.

LIU Yangyang

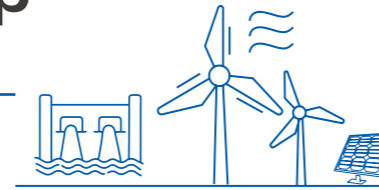
Chairwoman of ESG and Related-party Transaction Committee of the Board

Vision, Commitments and Values

Our Vision:



To be a globally esteemed clean energy group



Our Values:



Sustainability

- Dedicated to long-term sustainable growth
- Focus on implementing ESG best practices in our business



Professionalism

- Be determined and persistent
- Hold ourselves to high standards
- Prioritize professional expertise



Innovation

- Promote scientific and technical research and development
- Explore innovative business models



Respect

- Recognize the value of diversity
- Encourage communication across all levels
- Create an open and inclusive work environment

Our Commitments:

Sustainability



- We urge to produce 100% clean energy.
- We concern social and environmental impacts.
- We reduce our carbon emissions.
- We ensure transparent, independent and diverse corporate governance model.

People



- We provide equal opportunities to every employee.
- We strive to build trust to achieve common goals.
- We ensure a safe, healthy and secure work environment for all.

Partners



- We engage in dialogues with partners to seek understanding and cooperation.
- We enhance multi-stakeholders partnerships that mobilize and share knowledge, expertise, technology and financial resource.
- We acknowledge our partners with ESG ambitions.

Results



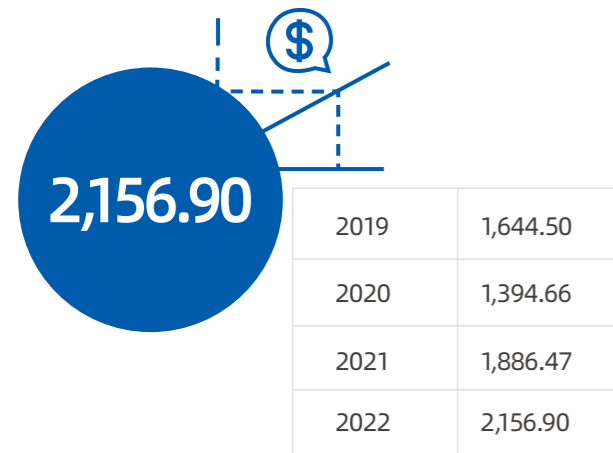
- We fulfill the commitments of creating superior values to our stakeholders.
- We pursue excellent and professional performance.
- We foster long-term and consistent improvement.

Highlights in 2022

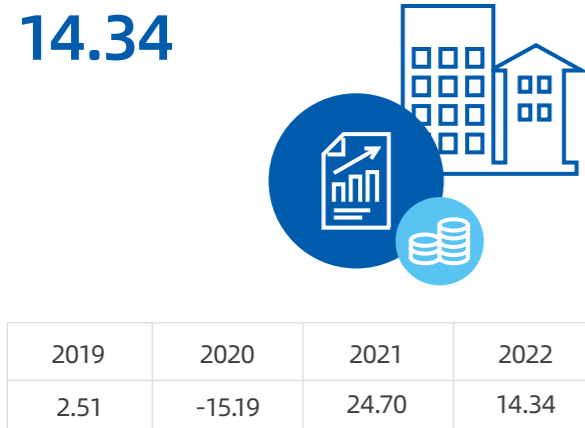
ESG Performance

Economic

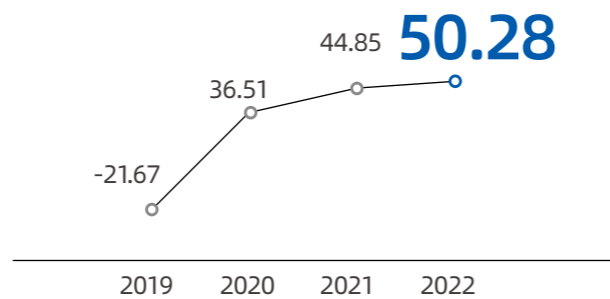
● Revenue (USD million)



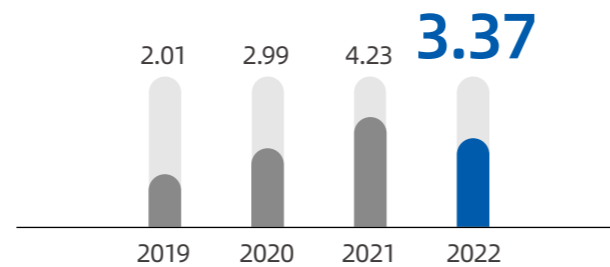
● Revenue growth rate (%)



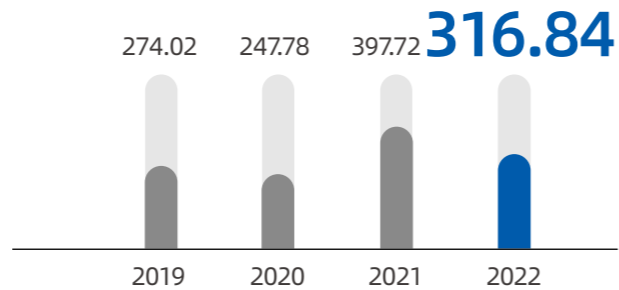
● Net profit growth rate (%)



● Return on net assets (%)

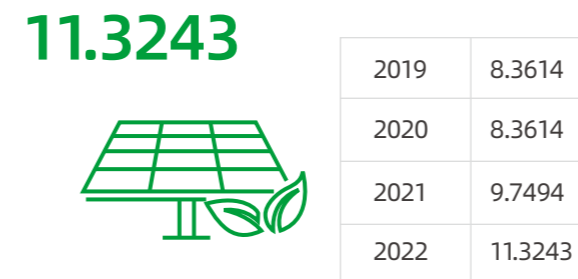


● Total tax payment (USD million)

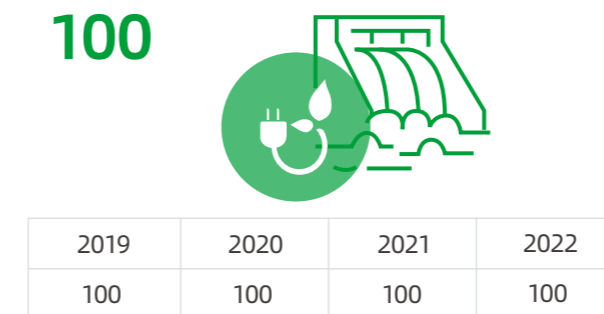


Environment

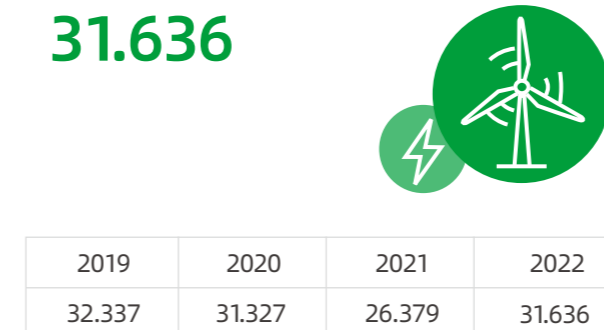
● Consolidated installation capacity of clean energy (GW)



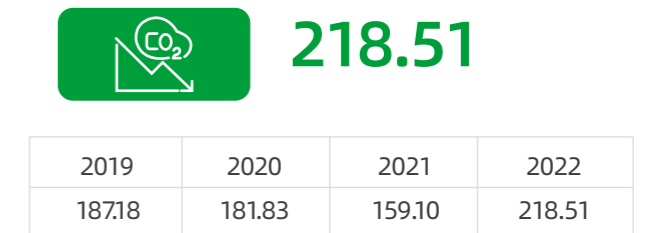
● Percentage of clean energy in consolidated capacity (%)



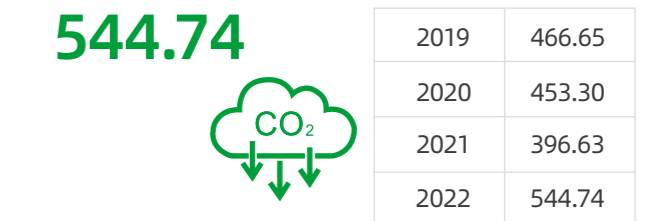
● Clean energy generation (TWh)



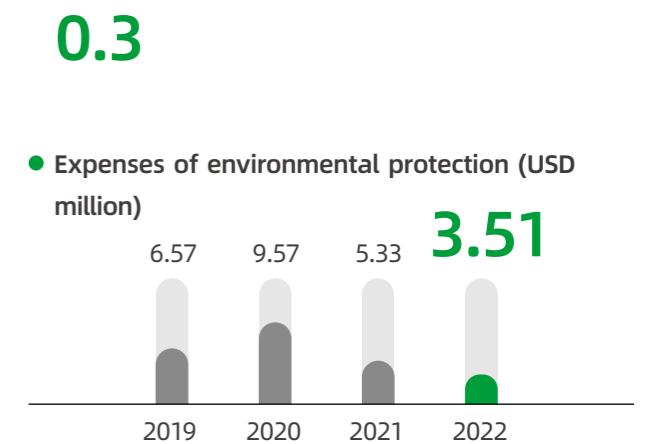
● Emission reduced through clean energy projects (10,000 tons of standard coal equivalent)



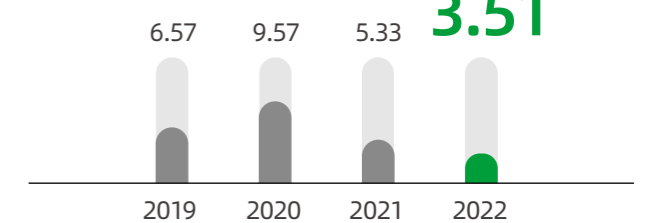
● Emission reduced through clean energy projects (10,000 tons of CO₂ equivalent)



● Specific CO₂ emissions (tCO₂/GWh)



● Expenses of environmental protection (USD million)



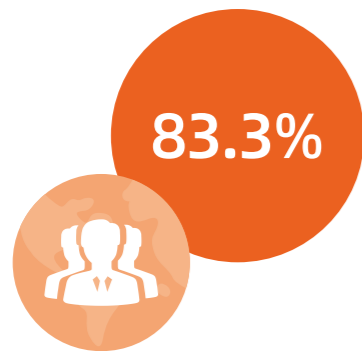
Social

Number of employee



2019	2020	2021	2022
1,332	1,375	1,454	1,661

Localized employee rate (%)



2019	2020	2021	2022
82.4	82.3	82.3	83.3

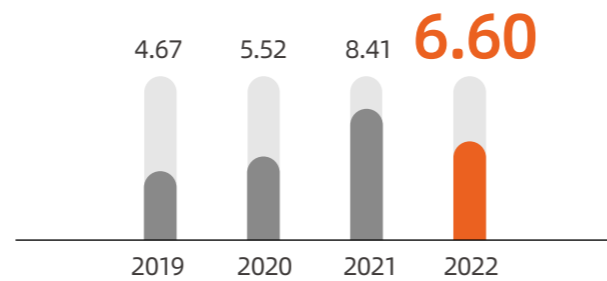
Investments in R&D (USD million)

37.76



2019	75.71
2020	51.86
2021	33.09
2022	37.76

Investments in work safety (USD million)



Number of occupational death (excluding contractors)



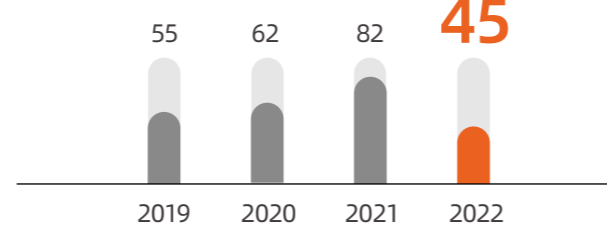
2019	2020	2021	2022
0	0	0	0

Number of major equipment accidents (excluding contractors)



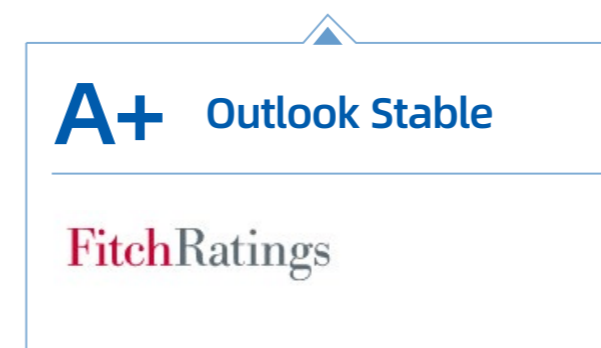
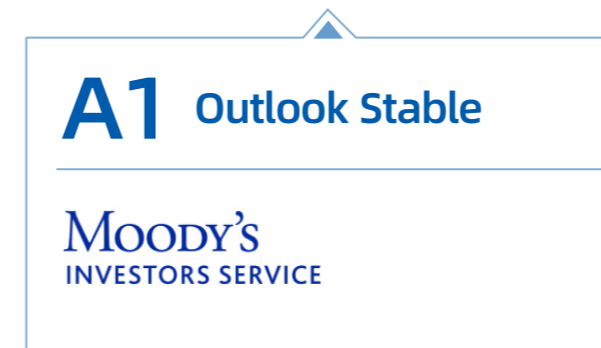
2019	2020	2021	2022
1	0	0	0

Number of R&D programs



Governance

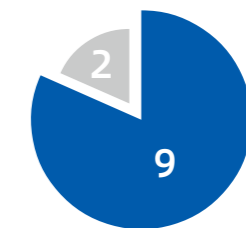
Global credit rating performance



Female directors in Board (person)

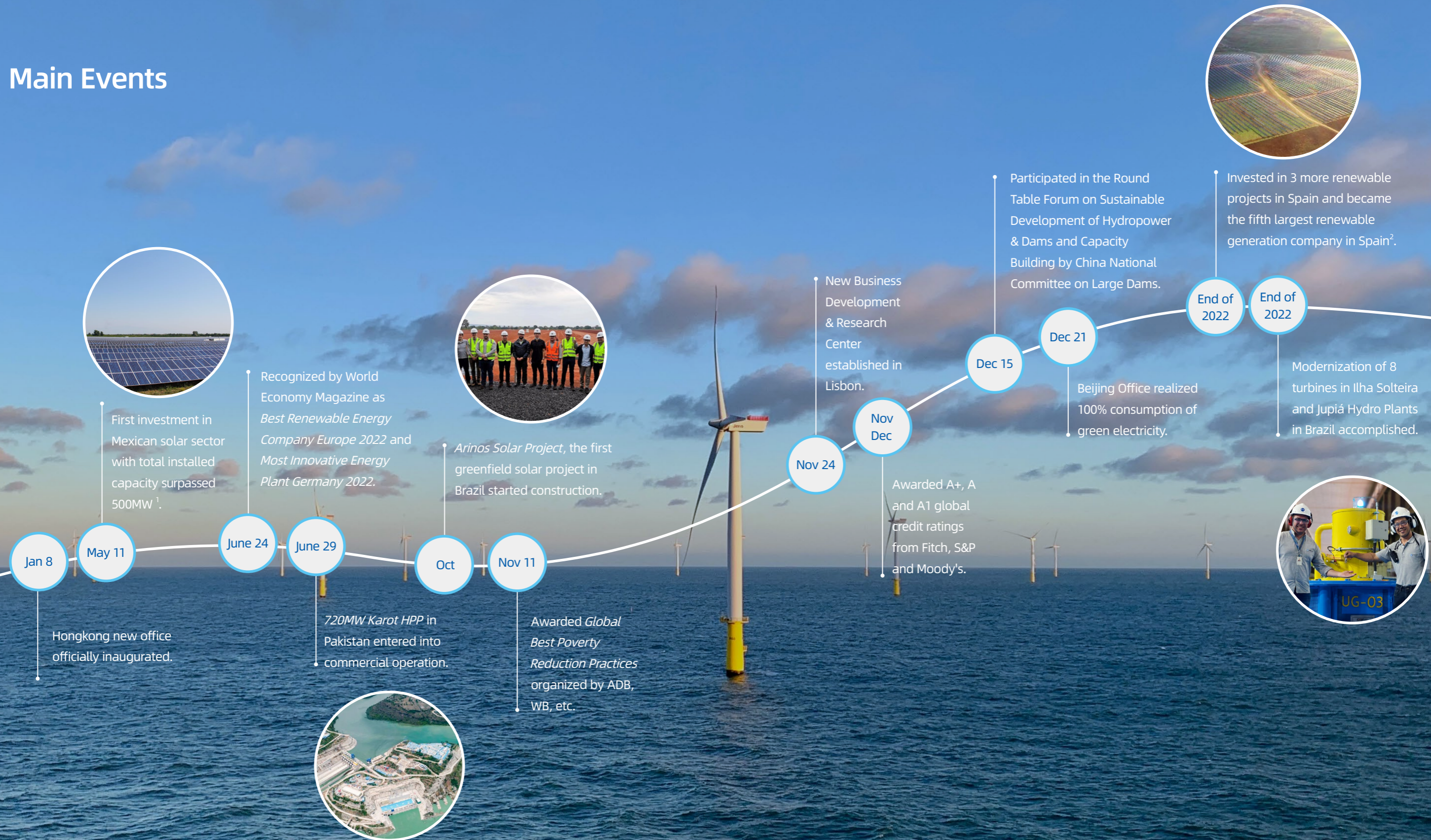


Non-executive directors in Board (person)



■ Non-executive directors
■ Executive directors

Main Events



¹ 3 solar plants, namely Guanajuato, Xoxocotla and Navojoa with total installed capacity of 416MW, and later on Nov 9, another 119MW solar plant, namely Peroteff

² 181MW Flores Wind, 618MW Roadrunner Solar Project and 104MW Belvis Solar Project

Awards & Recognitions



Global Best Poverty Reduction Practices 2022

CTGI's Business Plant Income Generation Project & Sustainable Tourism Project in Brazil was awarded *Global Best Poverty Reduction Practices* for Year 2022, jointly released by World Bank (WB), Asian Development Bank (ADB), three United Nations Rome-based agencies (RBAs) – the FAO, IFAD and World Food Programme (WFP) as well as China Internet Information Center (CIIC), International Poverty Reduction Center in China (IPRCC).

CTG-Pakistan Relocation Scholarships Program was also awarded *Global Best Poverty Reduction Practices* for Year 2021.



Pakistan Occupational Health, Safety and Environment Excellence 2022



In 2022, two of key subsidiaries of China Three Gorges South Asia Investment Limited, Karot Power Company (Private) Limited and Three Gorges First Wind Farm received *Certificate of Appreciation of Occupational Health, Safety and Environment Excellence* by National Electricity Regulatory Authority of Pakistan (NEPRA), which indicated the Company as an Outstanding Performer in ESG sector.



Pakistan CSR Award 2022



The Karot Power Company received *NEPRA CSR AWARDS 2022*, organized by National Forum for Environment and Health (NFEH) and the CSR Club of Pakistan, for its unwavering commitment towards community development, biodiversity management and corporate social responsibility.

2022 CSR Awards in China

CTGI was recognised as *one of the most innovative* companies in CSR aspect for its contribution on new nature economy exploration in 2022 by Golden Bee CSR China, and was honored with *2022 Golden Bull CSR China* for its remarkable achievements in global social responsibility programs.



CTG Brasil was ranked the 8th in the *TOP Open Corps 2022*, due to its portfolio diversification initiatives connected with green hydrogen, electric mobility, solar energy and digital transformation in Brazil. This Award is Latin America's leading corporate ranking rating businesses that most practiced open innovation with startups.



Brazil Top Open Corps 2022

2022 Europe's Best Renewable Energy Company and 2022 Germany's Most Innovative Energy Plant

CTG Europe was awarded *2022 Europe's Best Renewable Energy Company and 2022 Germany's Most Innovative Energy Plant*, by the World Economic Magazine, for having met the highest standard for excellence, indicating high recognition for its professional operational development in the industry of Europe.



About CTGI

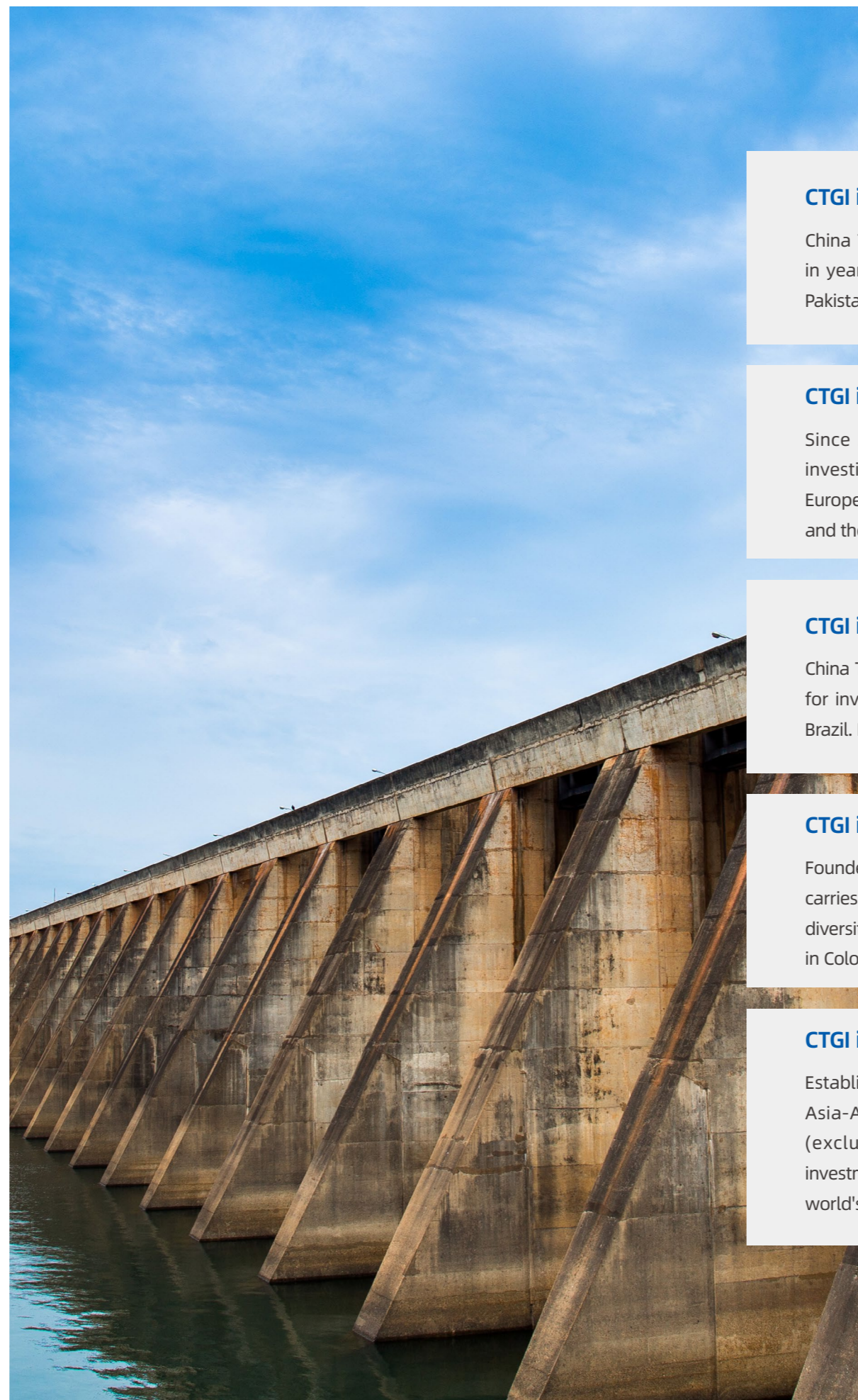
Who we are

China Three Gorges International Limited (CTGI) was incorporated in 2011, as a subsidiary of China Three Gorges Corporation (CTG), which is the largest hydropower developer and operator in the world and one of the largest clean energy enterprises in China. From our roots in renewable energy, CTGI has grown to a multinational clean energy group that shares a vision of being a more respectful company in delivering sustainable energy solutions for better life.

We focus on international clean energy investment and development as well as address energy transition and climate change globally by powering the planet with clean energy.

Over the years, we have kept providing affordable and reliable clean energy through 5 regional subsidiaries worldwide, namely China Three Gorges South Asia Investment Limited (CSAIL), China Three Gorges (Europe) S.A.(CTG Europe), China Three Gorges Brasil Energia Ltda.(CTG Brasil), China Three Gorges Latam Holding S.a.r.l (CTG LatAm) and Asia-Africa Green Energy Investment Limited (CTG Asia-Africa). We work to meet the society's needs of energy transition by undertaking hydro, wind and solar projects, pursuing a long-term sustainable development. Beyond aforesaid sectors, we also explore to new technologies in the sector such as green hydrogen and energy storage solutions.

In a world heading for net zero, CTGI recognizes the urgency of climate change and is ambitious to support the global movement for accelerating decarbonization. By embedding low-carbon strategies into our business, our global team of 1,661 employees are committed to improving people's lives and caring for the planet with cleaner energy.



CTGI in South Asia

China Three Gorges South Asia Investment Limited (CSAIL) was founded in year 2011 to invest in clean energy projects in South Asian region. In Pakistan, it has become a pioneer in clean energy investment sector.

CTGI in Europe

Since 2011, China Three Gorges (Europe) S.A (CTG Europe) has been investing in a number of clean energy projects in various countries in Europe. It is the single largest shareholder of Energias de Portugal (EDP) and the fifth largest renewable energy enterprise in Spain.

CTGI in Brazil

China Three Gorges Brasil Energia S.A (CTG Brasil) was incorporated in 2013 for investment, development and operation of clean energy projects in Brazil. It has become the third largest power generator in the country.

CTGI in Latin America

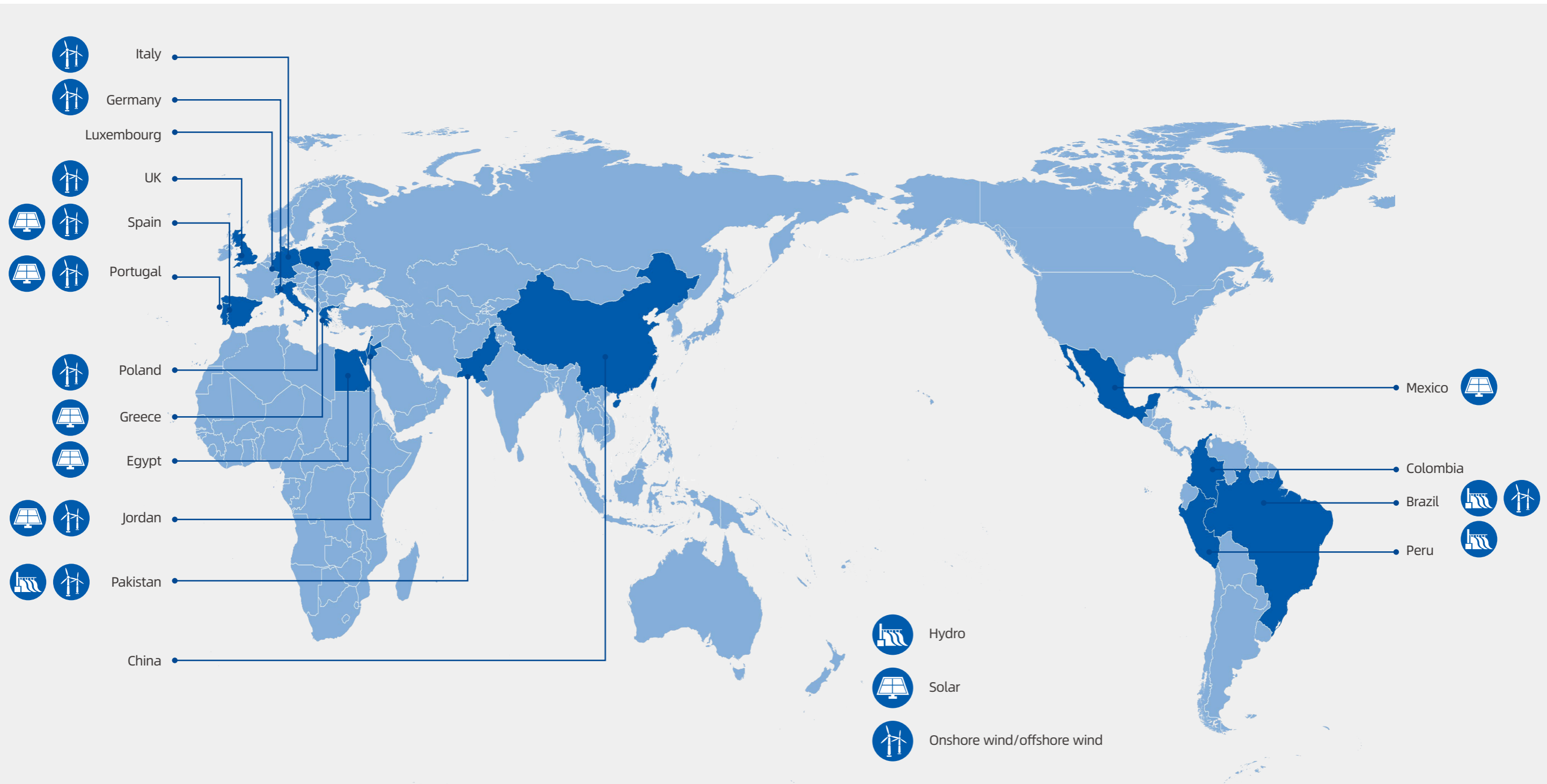
Founded in 2020, China Three Gorges Latam Holding S.A.R.L (CTG LatAm) carries out clean energy projects in Latin America (excluding Brazil). It has a diversified and competitive portfolio of greenfield and operational projects in Colombia, Mexico and Peru.

CTGI in Asia-Africa

Established in 2022, Asia-Africa Green Energy Investment Limited (CTGI Asia-Africa) focuses on emerging markets in Asia and Africa regions (excluding Pakistan). It has implemented several wind and solar investments in Jordan and Egypt. All its investment in Egypt locates in the world's fourth largest PV park.

Where we go

CTGI is present in 5 continents and 16 markets counting with 1,661 employees. By the end of 2022, CTGI has a total installed capacity of 18.83GW, consisting of 11.33GW consolidated capacity and 7.50GW capacity with equity interest.



What We Do

As a leading clean energy solutions provider, CTGI develops, builds, owns and operates renewable energy plants across the world. With hydro being a conventional source of power that we produce, we have been dramatically increasing our visibility in solar and wind in recent years. We are therefore amplifying and diversifying our profitable long-term growth options while maintaining a balanced risk profile. We are maintaining a responsible pace of change as we undertake our clean energy transition to preserve affordability and reliability.

With 74 controllable power stations including 15 hydropower stations, 29 wind farms and 30 solar plants in 16 countries and regions, CTGI has been

consistently delivering competitive and sustainable clean energy globally.

Sustainability is a fundamental part of our organisation, rooted in all our business units and integrated across our value chain. Our strategy in investments is not just about growing the business, but also aims to continually advance in all dimensions of our ESG agenda and to play a leading role as we contribute to tackling climate change and promoting the world's energy transition. We have dedicated sustainability resources, both at the project and corporate level, involving in lifecycle of all power project phases for long term approach and impact.

Consolidated Capacity of Regional Subsidiaries

	Hydro (MW)	Wind (MW)	Solar (MW)
CTG South Asia	720.0	279.5	280.0
CTG Europe	-	870.0	733.0
CTG Brasil	7906.9	-	-
CTG Latin America (excluding Brazil)	-	-	534.9
CTG Asia-Africa (excluding Pakistan)	-	-	109.4 ³

³Installed capacity of Asia-Africa is collected by the end of June 2023



Corporate Governance

CTGI's proven track record of delivering strong financial and operational performance begins with our foundation of sound corporate governance. Our governance structure is inspired by international best practices in terms of independence, transparency, diversity and accountability, and permeates the various strategic and operational processes at all levels of the Company, ensuring effective and efficient management of activities in line with the Company's vision, mission and values.

SDGs addressed in this section:



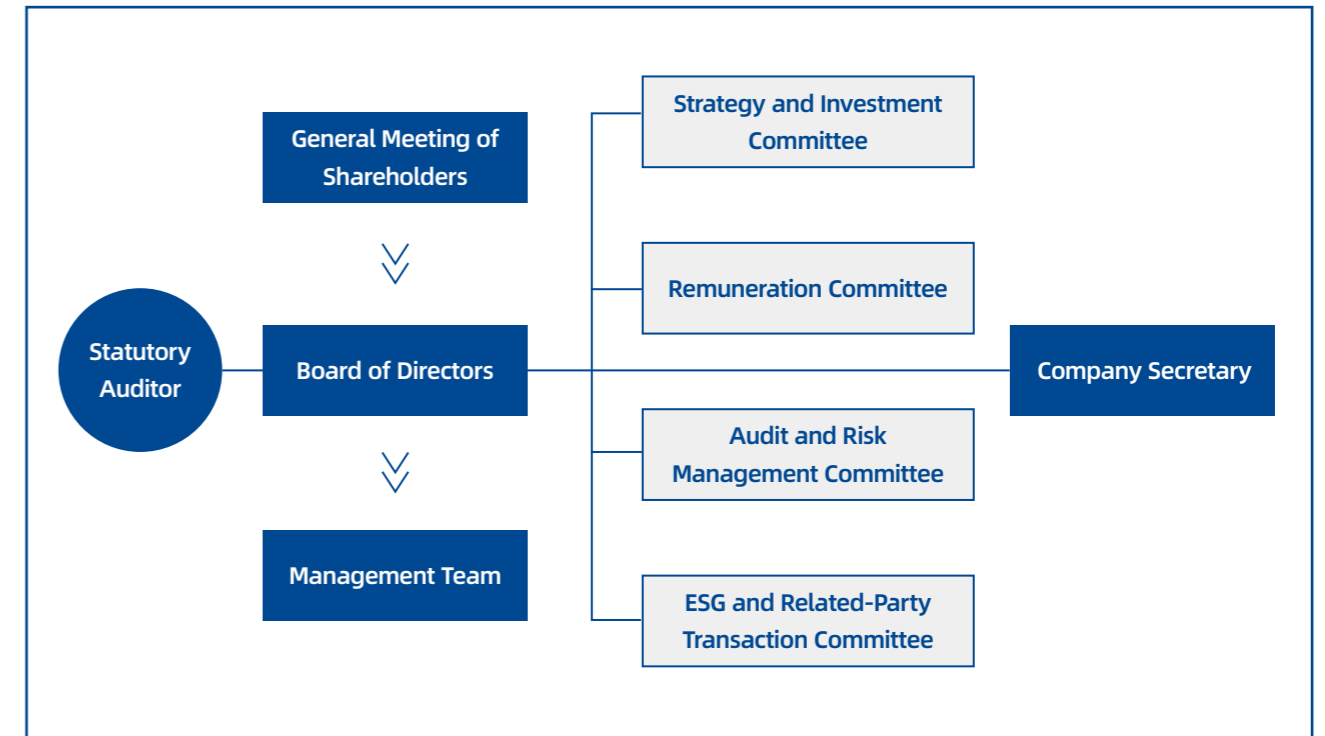
Governance Structure

CTGI's governance structure consists of the General Meeting of Shareholders (the "Shareholders"), Board of Directors (the "Board"), Management Team and the Statutory Auditor. Such model of corporate governance has allowed an effective separation of the Company's supervision and management in pursuit of the goals and interests of the Company and its shareholders, employees, partners and other stakeholders, thereby contributing to achieving the degree of trust and transparency necessary for its adequate functioning and optimization.

Since 2021, CTGI has deepened its global sustainable reach with the introduction of international investors as its shareholders, and formulated a more diversified, professional and experienced Board of Directors henceforth. Both the Shareholders and the

Board recognize the importance of sustainability in the Company's value chain and ensures that sustainability issues are appropriately taken into consideration in all relevant company decision-making processes, by defining specific tasks and responsibilities for the main corporate governance bodies.

With sustainability core to our business, the Board paid high attention to formulation, development and execution of the Company's strategy. In 2022, the Board approved the Company's latest Business Plan (2022-2024), which incorporated a bold ESG ambition focused on dealing with climate change, leading the energy transition, protecting the environment, delivering a positive impact on society and maintaining sound governance.



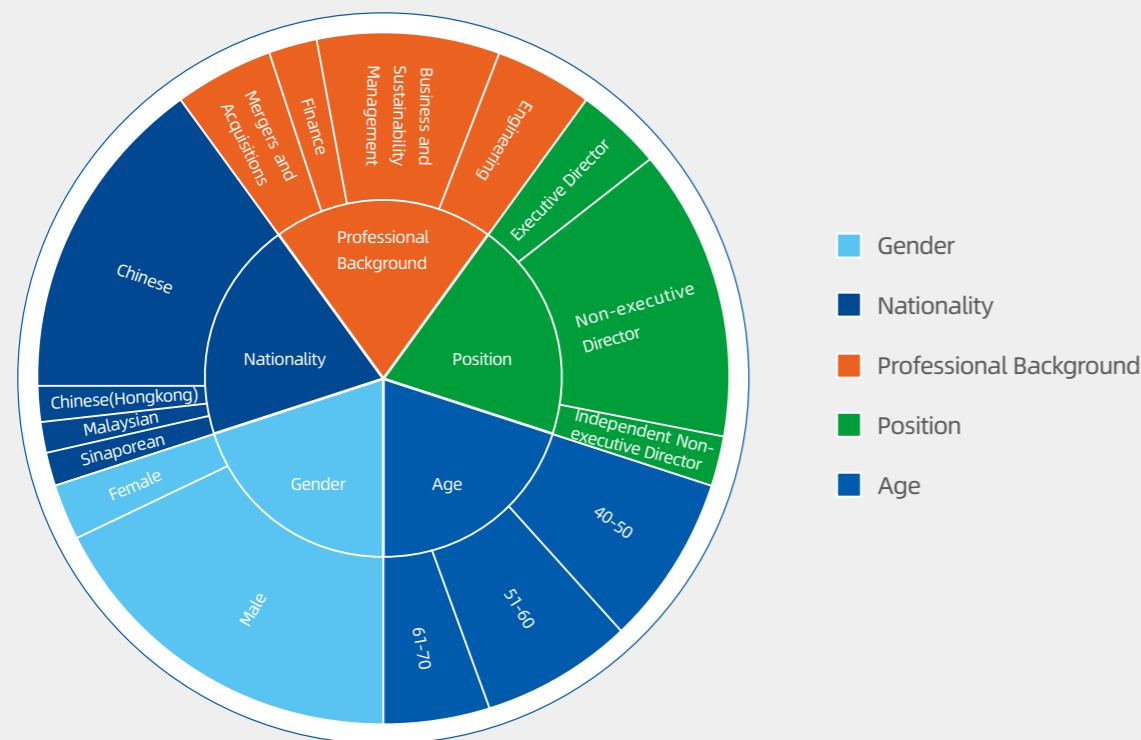
Board of Directors & Its Standing Committees

The Board of Directors plays a central role in CTGI's corporate governance as the body vested with powers related to the strategic, organizational and control policies, and pursues the sustainable success of the same. The objective of the Board of Directors is to promote corporate/social interests representing the Company and its shareholders in the management of its assets and businesses and directing business organization. The Board has a management mechanism in place to ensure that conflicts of interest are prevented.

CTGI's Board of Directors is dedicated to promoting long-term value creation. It defines the Company's strategic objectives and annually reviews opportunities and risks, including financial, legal, operational, social and environmental risks, and the measures taken in response. It ensures that both the Company's strategy and the investment have taken climate change into consideration. To ensure the Board in carrying out its duties, a continuous training

program on climate change was conducted for the Directors in 2022. It included a variety of modules on the following topics: climate change, energy transition and environmental risks, financial risks and opportunities. In 2022 the Directors took part in the ESG workshops designed to raise ESG awareness, guide implementation of the Company's ESG action plan and share the ESG best practices based on their experience and background.

Composed of 11 professionals with diversity of knowledge, experiences, origins, nationalities and gender, whose aim is to provide real value to the Company, working every day from a position of integrity and transparency in the most efficient and effective way. CTGI keeps exploring on building a governance system that enhances the independence, diversity and effectiveness of the Board. As such, our Board consists mainly of non-executive directors, accounting for 82%.



Board of Directors



WU Shengliang
Chairman



LYU Jiongtao



HONG Wenhao



CHENG Yongquan



WANG Zhengang



GUAN Jielin



ZHAO Jifeng



BOON Chin Hau



CHEN Zhigang



LIU Yangyang



CHAU Chi Wai

Standing Committees of the Board

The Board of Directors has also established 4 standing Committees with the power to investigate, propose and advise, in order to ensure an adequate internal division of its functions, as well as a related parties committee. In particular, the following committees have been established:

Strategy and Investment Committee

The key responsibilities of the Strategy and Investment Committee is to analyze the Company's vision, mission, strategy, business plan, annual plan, investment plan and other important matters, to propose the project investment policy, to review investment-related issues and supervise investment risks, to conduct research on other crucial matters of the Company that may have vital impact on the Company's development, and to make recommendations to the Board. In particular, the Committee provides advice and support in defining the Company's ESG strategy and provides opinions and recommendations on the environmental and social impact of projects under the investment decision made by the Company. The Committee is composed of 9 members and met 9 times in 2022.

 **Remuneration Committee**

The Remuneration Committee is responsible for conducting research on the Company's compensation mechanism and specific policies for Directors and Management Team, and reviewing the Company's annual payroll plan, reviewing the qualification of candidates for Directors and the criteria, procedures and methods for the selection of the Company's executive members, inspecting on the candidates for the executive members and Company Secretary and making recommendations to the Board. The Committee is composed of 5 members and met 7 times in 2022.

 **Audit and Risk Management Committee**

The Audit and Risk Management Committee is mainly responsible for reviewing and monitoring the Company's risk management system, internal control system, legal compliance management system and ethics, reviewing, inspecting and assessing the internal audit of the Company, reviewing the Company's annual audit plan and important audit reports. To safeguarding good corporate governance and transparency in all the Company's economic and financial actions, this Committee is also in charge of supervising the conducts of the directors and executive members of the Company and assessing whether they conform to the requirements of applicable Laws and relevant policies of the Company as well as managing a whistleblowing reporting channel for non-compliance activities of the Company.

This Committee is chaired by the independent director of the Board and composed of 4 members. The Committee met 5 times in 2022.

 **ESG and Related-party Transaction Committee**

The ESG and Related-party Transaction Committee is in charge of assisting the Board of Directors on sustainability issues and the dynamics of the Company's interaction with all stakeholders, and secures corporate transparency and fair transactions. In specific, this Committee's responsibilities include conducting research on the framework of the Company's policing systems, establishing the Company's ESG management system, conducting ESG's strategy, goals, materiality matrix, policies, identifying ESG risks and opportunities and monitoring ESG system's operation, ensuring progress toward delivering on the Company's sustainability commitments as well as improving operational programs to address gaps in the Company's sustainability programs. This Committee is also responsible for reviewing related party transaction and making recommendations to the Board.

This Committee is chaired by the female director of the Board and composed of 5 members. The Committee met 7 times in 2022.

Management Team

In 2022, CTGI's Management Team consists of 6 members. Its mission is to manage the Company's transformation in the context of the far-reaching changes affecting the global clean energy sector. Its members are responsible for the Company's operational and functional divisions and the principal geographical zones in which CTGI operates. They examine issues and decisions relating to the Company's strategy, development, organization and performance in serving its stakeholders.

This Management Team is also in charge of developing and implementing the Company's sustainability strategy and ensuring social, environmental and ethical issues are integrated into management's decision-making processes.



LYU Jiongtao
President



YANG Baihua
Vice President
Chief Engineer
Chief Safety Officer



QIN Guobin
Vice President
Chief Compliance Officer
General Counsel



ZHANG Kaihong
Vice President



GAO Peng
Vice President



HE Shan
Chief Financial Officer

ESG Management

CTGI has a ESG management and governance system in place encompassing all areas at the company, ensuring supervision by the Board of Directors, either directly or through the ESG and Related-party Transaction Committee.

In 2022, CTGI modified its ESG management and governance system, introducing a three-level hierarchy, namely the Governance Level, Management Level and Implementation Level, with each level performing its own obligations and duties to ensure effective operation of the Company's ESG system.

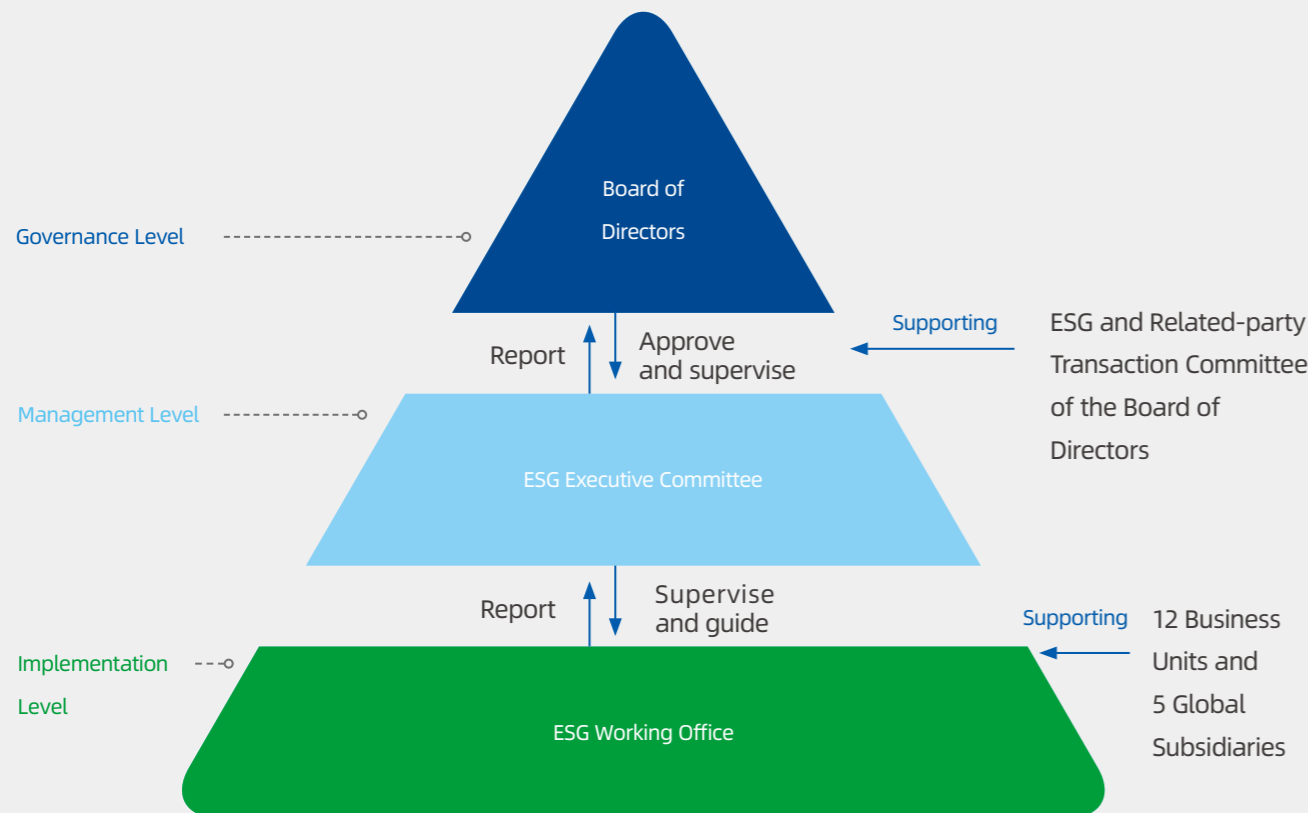


In 2022, CTGI formulated its 2022-2024 ESG Action Plan, that embodied the Company's sustainability strategy, taking into account the results of the materiality analysis, in synergy with the Company's 2022-2024 Business Plan, and translated into specific short-, medium- and long-term goals in order to ensure the transparency and verifiability of our journey towards sustainable progress.

At the heart of CTGI's 2022-2024 ESG Action Plan is our ambition approaching zero emissions, thanks to the Company's sustainable business model based on the development of generation from 100% renewable sources and facilitated by the sound governance structure, by the end of 2022, CTGI has surged clean energy installed capacity of 18.83GW in 16 countries and regions. We have been investing in the modernization of our hydro plants and in the diversification of our portfolio of assets, especially in renewable solar and wind power to increase our efficiency and production capacity.

In all our activities, we always take into account the needs of our stakeholders. In this context, innovation digitalization, circular economy and sustainable finance act across all sectors and accelerate growth. A pathway of sustainable growth that is taken in respect of nature and of human rights.

Every year, these objectives are updated in accordance with a process of continuous alignment with the business strategies, with the results achieved and best practices in order to increasingly integrate sustainability along the entire value chain.



Governance Level

Leading and being responsible for ESG management and governance, reviewing ESG management framework, ESG strategies, policies and targets, ensuring the building of effective ESG risk management and internal control systems, supervising their implementation of ESG targets, and monitoring Key Performance Indicators (KPIs) set by the Company on ESG priorities and ESG performance.



Management Level

Developing ESG targets and working plans, improving communication with stakeholders, identifying ESG-related risks and opportunities, and reporting and making recommendations to the ESG and Related-party Transaction Committee.



Implementation Level

Coordinating the implementation of working plans and advancing specific tasks under the guidance of the Governance Level and Management Level, in the aspects of global clean energy M&A and greenfield investment, power plants operation and maintenance, R&D, IT systems, legal and compliance, capital markets and finance, quality and safety, supply chain, human resource, stakeholder management, etc.

Materiality

Clean energy must be deployed with respect for nature, social inclusion and in close cooperation with broader society. The impact of renewable power plants on biodiversity and local communities needs to be understood and minimized, and economic development and job creation are essential for renewable deployment to gain support.

CTGI's Materiality analysis process has been developed using a multi-disciplinary methodology. CTGI's methodological approach to defining materiality considers the concept of dual materiality, as defined by the GRI Standards.

Stakeholder engagement

Regular engagement with internal and external stakeholders to understand what types of topics and issues concern them is key to determining our sustainability priorities. CTGI's key stakeholder groups include co-investors and partners, financing partners, shareholders, employees, suppliers, contractors, governments and regulators, as well as local communities. We assess identified topics for the significance of their environmental, social and economic impacts.

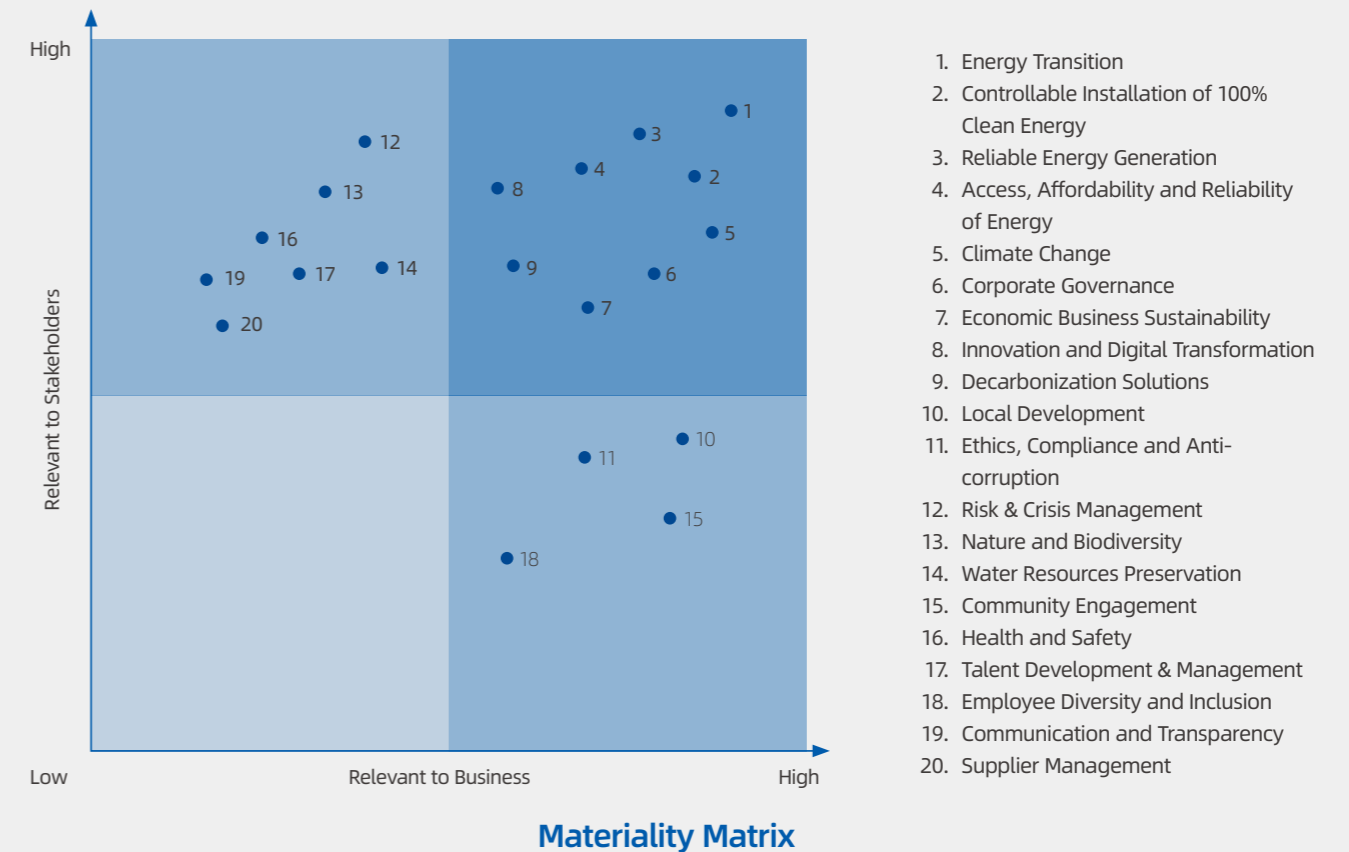
Material topics in our business

The most material ESG topics in our business are identified and prioritized based on the principle of double materiality, ensuring that both the impact on our global clean energy investment and the impact of this business are considered. The primary areas that may cause relevant economic, environmental and social impacts include geopolitical issues, regulatory policies, health, safety and security, compliance, supply chain, people and organisation (P&O), operations and maintenance (O&M), environmental and social (E&S), etc.

Through the materiality process, CTGI identifies the most important topics for society and business. Material issues for CTGI are those likely to affect the creation of value for the Company, which are recognized as important to its different stakeholder groups. Based on the identified material topics, CTGI formulated its 2022-2024 Business Plan to make an integrated contribution to achieve its vision of being a more respectful company in delivering sustainable energy solutions for better life.

The United Nations Sustainable Development Goals (SDGs) - (7) Clean and affordable energy, (11) Sustainable cities and communities, (12) Responsible consumption and production, (13) Climate action and (17) Partnerships for the goals - are directly related to CTGI's material issues, of major importance for to business and society.

In 2022, the Company identified **20 material topics**, which are relevant for society and for the business.



Environment	Social	Governance
Energy Transition	Access, Affordability and Reliability of Energy	Corporate Governance
Controllable Installation of 100% Clean Energy	Local Development	Economic Business Sustainability
Reliable Energy Generation	Community Engagement	Innovation and Digital Transformation
Climate Change	Health and Safety	Ethics, Compliance and Anti-corruption
Decarbonization Solutions	Talent Development & Management	Risk & Crisis Management
Nature and Biodiversity	Employee Diversity and Inclusion	Communication and Transparency
Water Resources Preservation	Supplier Management	

Stakeholder Management

At CTGI, our stakeholders include shareholders & investors, government & regulatory authorities, partners & suppliers, employees, community, clients, media and NGOs. Stakeholder management has been a strategic priority for CTGI since established. Regular and constructive engagement with our stakeholders is crucial to the delivery of our ambition, sustainability frame and aims, and has become a critical part of our ESG practices for the businesses and metrics drawn from the stakeholder feedback. We engage with various different stakeholders, in many different ways - from local meetings to global partnerships.

CTGI works to foster mutual understanding, trust and cooperation with stakeholder groups on sustainability topics. We interact with these groups through shareholder meetings, community meetings, social media, employee surveys, open houses, corporate publications, government relations, international forums and one-on-one discussions.



Li Yang
CEO of CTG LatAm

CTG LatAm aims to be pioneer leader on the road to peak carbon and carbon neutrality, actively reducing carbon emissions through innovative renewable energy solutions. We are committed to sustainable achievements in the ESG field, not only reducing our impact on the environment, but also promoting social responsibility and good governance. Relying on the strength and creativity of our global team, we will push forward technological development, establish sustainable business models, and actively contribute to the realization of our company's and the region's green development goals. I hope that CTGI could incorporate ESG concepts into every aspect of the company's development, and ensure a transparent and robust corporate governance structure by strengthening social responsibility and promoting diversity and inclusion.



On December 15th, CTGI participated in the 15th Roundtable Forum on Reservoir Dams, Hydropower Sustainable Development and Capacity Building, delivering a presentation on the topic of "Hydropower Development in the Era of Carbon Neutrality", sharing our latest concepts and practices in clean energy and sustainable development.

On April 15th, Ignacio Herrero Ruiz, CEO of CTG Europe, attended the second "Wake up Spain" Forum and delivered a speech affirming CTG Europe's commitment to support Spain and Europe's energy transition and contribute to the achievement of the goals of the European Green Deal.



Stakeholders



Shareholders & Investors



Government & Regulatory Authorities



Partners and Suppliers



Employees



Community



Clients



Media and NGOs

Major Concerns or Expectations

- Sustainable profitability and growth
- Regulation of corporate governance
- Reward shareholders
- Information transparency and efficient communication
- Compliance and risk management
- ESG performance

- Compliant with laws and regulations
- Tax payment
- Local economic development
- Job creation
- Work safety and environmental protection

- Supply chain sustainability management
- Win-win cooperation and mutual benefits
- Contract compliance and mutual trust

- Legitimate rights and interests
- Salary and welfare guarantee
- Career development and training
- Occupational health and working environment

- Protection of local environment
- Development of local community
- Charity and welfare
- Public relations

- Clean energy
- Stable and safe power supply
- Contract performance and integrity

- Information disclosure
- Interaction with media
- Contribution to NGOs
- Impact on sustainable development

Responses

- Enhance business management capacity
- Strengthen financing management
- Optimize internal compliance management system
- Timely disclosure of information
- Organize shareholders' meeting

- Submit information and disclosures
- Conform to laws and regulations
- Pay taxes according to law
- Offer job opportunities
- Drive development of local economy
- Guarantee safety
- Protect environment

- Open and fair procurement
- Conduct due diligence on suppliers
- Support the sound development of suppliers
- Prefer environmentally friendly product and service

- Fair and standard employment
- Provide skill training
- Improve talent development channels
- Offer competitive salaries and diversified welfare
- Offer healthy and safe occupational environment

- Participate in volunteer services
- Protect local environment
- Support public affairs of the community
- Carry out charity activities within the community

- Strictly implement requirements set forth in contracts
- Strengthen the maintenance and operation of power plants
- Adhere to producing clean energy

- Regularly and timely disclose information
- Carry out open house activities

Ethics, Compliance and Risk Management

In line with its values and commitments, CTGI seeks to act in all circumstances in accordance with the laws and regulations in force in the countries and regions where it operates. We have established a robust, comprehensive and technology-driven risk management to effectively manage and mitigate risks inherent to the business to protect the Company and all stakeholders.

In fact, CTGI typically goes beyond legal and regulatory obligations. We set our sights higher than mere compliance and strive to always uphold high ethical standards in all aspects of our business.

Ethics

Ethics is an essential guidance for the Company's business and daily activities. We have formulated *Code of Ethics* (hereinafter referred as "the Code"), which represents the pillars of our ethical culture and integrity. The Code embodies our fundamental values and commitment to ethical conduct as well as safeguards our company's integrity. It is the bedrock of how we build our business.

The Board of Directors is the highest governance body for integrity and ethics, complemented by the Audit and Risk Management Committee at governance level and Integrity & Ethics Office at executive level. Company-wide ethical principles and commitments are applicable to all activities, covering all business units and regional subsidiaries.

The Code of Ethics sets and enforces our expectations. Additionally, separate instructions and guidelines, such as *Code of Conduct for Directors and Senior Management* and *Code of Business Conduct*, have been created to address a wide range of topics, including anti-bribery, safeguarding of company assets, conflicts of interest, anti money laundering, and privacy protection, etc. The Code and related instructions are applicable to all employees, executive team members and directors of the Company, and guide all regional subsidiaries to develop their targeted norms based on their own development.

In the Year 2022, both the Board Directors and Executive Team Members of CTGI have signed the Commitment Letters, through which showing their firm determination in this aspect.

Aware of the importance of communication in this area, our efforts on implementing. The Code is supported by a comprehensive ethics training and communication. The related awareness and training materials of the Code and its instructions are provided in-

person and online through communications, holding employees accountable for their behavior and helping them determine when and where to seek advice.

By providing everyone with clear responsibilities and the appropriate resources, we foster a zero-tolerance environment for legal and safety violations.

In addition, CTGI has a whistleblowing mechanism that enables employees and outsiders to raise ethics concerns that violate the Code. The whistleblowing mechanism include a helpline, a specific email address to contact, and designated Integrity & Ethics Office contact point where colleagues can go to provide feedback, access relevant information and raise related concerns. All reported cases are treated confidentially and anonymously and are handled promptly by the Supervision Office.





Case: CTG Brasil's practice on ethics and compliance

A seamless and crystal-clear communication, legal compliance, and respect for ethics and integrity across its activities, are amongst CTG Brasil's Integrated Management System seven pillars. CTGI Brasil has a Compliance Program in place encompassing from senior management to operational levels, including suppliers and outsourced workers. The Program includes annual training and certifications for all team of professionals, also promoted the **Compliance Week** which, in 2022, focused on ESG issues.

To assure integrity across its value chain, CTG Brasil also relies on a *Code of Ethics and Conduct* for suppliers and contractors. In 2022, the Compliance Program also devised an automation solution to expedite and improve the reliability of entire due diligence process. Besides, CTG Brasil had a mandatory annual communication and training plan for its Code of Business Ethics and Business Conduct, which amongst other topics, includes the Company's anti-corruption provisions. In 2022, no cases of corruptions were reported to the Company.

CTG Brasil also promotes, every two years, a Conflict of Interests Campaign targeting all the professionals at the organization, wherein any conflict is analyzed, and if necessary, prevention or mitigation appropriate measures are adopted. In addition, the Board of Directors 'advisory committees' members sign an instrument of investiture wherein they declare they neither hold positions in any entity that may be considered the Company's competitor, nor represent, interests conflicting with CTG Brasil's interests.

In CTG Brasil, an Ethics Line is established and provides 24/7 service for internal and external stakeholders, so that people have an open and permanent channel to address any behavior not compliant with prevailing laws and CTG Brasil's Code of Conduct. Besides registering occurrences, the efforts to disseminate the compliance culture, this channel also has been used for consultations on the aspects provided for in the Code of Conduct. The access to the Ethics Line can be made via corporate intranet, website or telephone.



Compliance

CTGI conducts business with integrity, respecting the cultural diversity, dignity and rights of individuals in all the global markets where it operates. We are committed to complying with ethical rules and principles, and with applicable laws, both within the Company and in its interactions with external parties.

CTGI has established its Compliance Management System in accordance with the requirements of ISO 37301:2021 (Compliance Management System) and ISO 37001:2016 (Anti-Bribery Management System), taking the best practices of compliance as reference.

The Board of Directors, with assistance of its Audit and Risk Committee, is the highest authority responsible for the compliance and risk management. A Chief Compliance Officer (CCO) is appointed to oversee and support an enterprise-wide approach to managing critical compliance matters. Key responsibilities of the CCO is to ensure the Company's compliance management system is effective at preventing, detecting and responding to illegal or unethical conduct, and is supported and complemented by compliance specialists in all business units and the Chief Compliance Officers of each regional subsidiary.

Rio Paraná Energia, one of CTG Brasil's subsidiaries, was elected as one of the winners of the 2022 Transparency Trophy, in the 26th edition organized by the National Association of Finance, Administration and Accounting Executives (ANEFAC in Portuguese). The award recognizes the best practices of transparency in accounting information disclosed through financial statements. In addition to the financial reports and the clarity in the inclusion of additional data, in the selection of the winning companies, the award took into account ESG criteria - such as actions integrating community, environment and corporate governance.



To improve the effectiveness of compliance management, CTGI has established a quarterly compliance risk analysis system and reports its findings regularly.

Also, 2022 was the Year of Compliance Enhancement of CTGI which marked the massive progress we have made in compliance management, including

100%

compliance reviews of the Company's policies, business contracts and procurement contracts, covering 37 policies and 98 contracts

135

contractors received compliance due diligence

100%

compliance commitment to all employees and suppliers

1

anti-corruption training provided to board directors, executive management members and employees

zero

concluded legal cases related to corruption



Case: CSAIL's integrity and compliance practice

CSAIL has established an Ethics and Integrity Compliance System that complies with international standards. Since its establishment, CSAIL had a governance-level compliance management structure in place with the Board of Directors as the highest decision-making body and its Integrity and Compliance Committee to independently guide relevant works. To fully advocate integrity and compliance in its operations, CSAIL elaborates the Code of Ethics and Integrity Compliance and the Code of Business Conduct, and a whistleblowing mechanism is also set up for preventing, detecting and reducing the risk of improper behavior or any violation of the Codes.



Risk Management

CTGI seeks to have a comprehensive perspective over the key risks it is exposed to, at strategic, business, financial and operational level, establishing processes to assure follow-ups and proactive management. Risk management within the Company is based on foresight, independence, commitment to the Company's business objectives and the engagement of Management Team and the Board.

Besides closely monitoring key risks inherent to its activities, the Company maps key trends, at global and industrial level, that may be translated into threats and opportunities, and proactively develops adequate mitigation strategies.

In 2022, we have updated our Risk Measurement System to monitor the Company's risks more accurately, closely and timely. CTGI identified 8 key risks with 48 indicators, including geopolitical instability, social and economic crisis, climate change, relationship with stakeholders, corporate planning, global energy market, changes in taxes and industrial charges, changes in regulations, fluctuation of interest rate, fluctuation of exchange rate, inflation, development and construction of greenfield assets, operation and maintenance of operating power generating assets, work accidents, people management, relationship with NGOs and other stakeholders, integrity and security of information, legal, compliance and ethics, etc. We scored the indicators monthly to judge the risk level of high, medium, and low based on our risk warning lines.

To ensure the safeguarding of the community, the environment and CTGI's global assets, we are committed to best risk management practices, which allows the systematic identification, assessment, management and monitoring of risks for each business line can be implemented in line with the evolution of the Company.

Business Cross-sectional Innovation

Digitalization

The transformation of the energy system, alongside the digital revolution, entails changing and evolving the way works are performed and how goods and services are supplied. CTGI is very aware of this reality and of the opportunities it presents and, therefore, digital transformation is an essential feature of its sustainability development. In our digital transformation, we aim to use digital solutions as tools for the development of a sustainable future.

In 2022, a separate Digitalization Center was established as the department in charge of CTGI's digital transformation. We formulated the Company's Digitalization Policy, which considers digital as a key factor to the Company's sustainability. With this Policy, we are committed to ensuring that the Company's digital solutions comply with sustainability criteria, as well as promoting the sustainable use of digital technology in all business processes and in the countries and regions we operate. Besides, the Center also plays a key role in maximizing data and information sharing and ensuring a rapid and effective response to continuous changes, contributing to enabling new operational and business models.

Digitalization has been one of the basic pillars of CTGI's Strategic Plan, as a lever to improve convenience and standardization, as well as process efficiency within the Company. The main actions taken in 2022 concerned:



ERP System

Launched in 2022, the CTGI's ERP project has made significant progress in the year, and has been starting to enter into operation in modules and phases. With the latest technologies, this ERP System enables CTGI to effectively manage the Company's core business processes in an integrated system, including finance, human resources, procurement, etc. It helps to improve business insight with better enterprise data integrity and enhance the Company's instant collaboration with business partners around the world.



Office Automation System

CTGI continues to promote office efficiency through an updated digital solution with more automatic process. The Company's new Office Automation Platform has entered into operation in 2022, further streamlining the daily administrative and management practices. This integration of technology in office activities optimizes workflow visibility and enables a more flexible way of internal communication.

Data compliance and information security

As a multinational company operating in 16 markets, CTGI faces data compliance regulatory requirements from multiple jurisdictions, including the EU GDPR, Brazil LGPD, China PIPL, China Hong Kong PDPO, Pakistan PDPB, Egypt PDPL, etc. The Digital Center has conducted study and research on data protection laws and policies in nearly 20 jurisdictions, and has assessed the potential data compliance risks that the ERP System may face. With the signing of the data transmission agreement between headquarters and regional subsidiaries, CTGI has agreed on data compliance management at the protocol level

to ensure compliance with the data security and compliance requirements in global operations.

In terms of information security, CTGI adheres to the principle of synchronous planning, synchronous construction, and synchronous implementation between system construction and network security. The Company has been gradually building and improving its network security system, which includes optimizing network regional boundaries, improving monitoring measures, and creating an integrated end-to-end cloud security protection platform.



Case: CTG Brasil enhanced cooperation with Senai on information security

Considering cyber security as a priority topic, CTG Brasil has partnered with Senai Institute of Information Technology and Communication Innovation (ISI-TICs) with a R\$3 million budget. In addition, CTG Brasil has collaborated with the Brazilian Electricity Regulatory Agency (Aneel) in the Research, Development and Innovation project to create a cyber security framework, and has signed a specific tool contract to operate network vulnerabilities and assets inventories, aiming at automating controls.

In addition to proposing new monitoring, governance and follow-up strategies, the framework can also be customized to support different cyber security routines that CTG Brasil considers relevant to its plant operation.



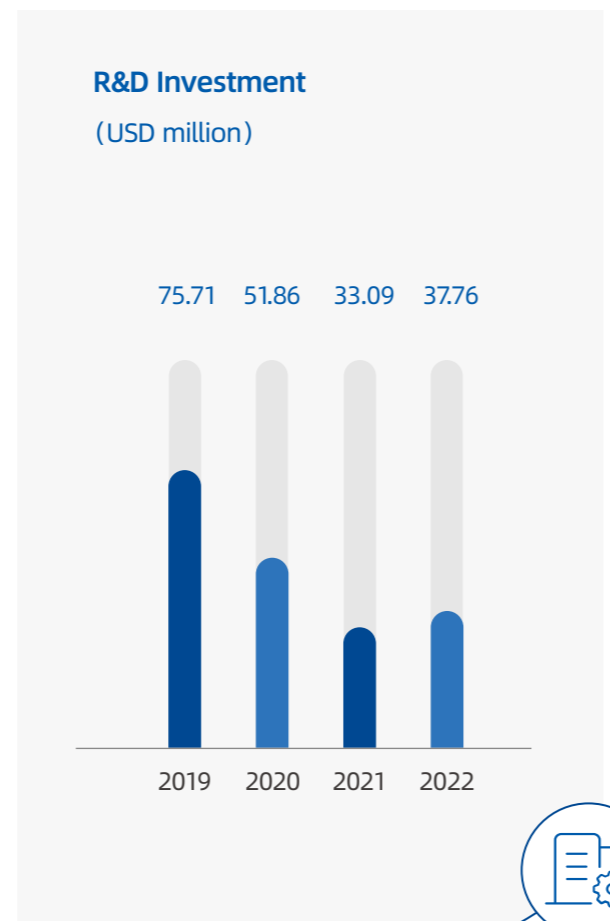
Business Innovation

CTGI considers innovation as one of the Values that inspire our day-to-day actions, and the driving force for long-term development. The promotion of innovation in CTGI's different business lines acts as an engine to accelerate comprehensive growth. Thus we have drawn up our first Innovation Plan setting out goals and priority issues over a five-year time horizon. The CTGI's 2021-2025 Innovation Plan pursues long-term value creation, based on the following strategic priorities that serve as the foundation of its objectives:

- **Decarbonization with a zero emissions ambition**
- **Diversification of clean energy portfolio and investment in new technologies**

The Plan's strategic lines of action coincide with CTGI's strong commitment to the pursuit of continuously improving efficiency through the innovation of its businesses. To this end, CTGI develops Annual Innovation Investment Plan across all its businesses.

In 2022, CTGI's New Business Development & Research Center was officially established in Portugal, with the aim of providing a platform for innovation cooperation with European institutions, exploring the way of new technology innovation focusing on renewables and reducing CO₂ emissions. Memorandums of Understanding on scientific and technological cooperation have been signed with four academic and research institutions, including the Portuguese New Energy Technology Center, the University of Coimbra in Portugal and the Spanish Renewable Energy Center, to establish cooperative relationships and further promote the integration of Industry-University-Research, and transformation of R&D achievement into productivity.



Case: Chinese and Brazilian experts work together on renovation of aging hydropower plants

Both China and Brazil are major hydropower countries in the world. CTG Brasil uses CTG's experience and standards to carry out large-scale technological modernization of two hydropower plants with a history of more than 40 years in Jupia and Ilha to solve the problem of serious aging of the overall mechanical and electrical equipment of the HPP, increase the reliability and efficiency of the generation units of the HPP, improve the generator capacity of the units, realize remote intelligent control, and promote the performance of the units reaching advanced level in Brazil.

CTGI dispatches Chinese engineers and experts to participate in the process of modernization, innovatively introduces the "Three-level Acceptance" System of China Hydropower into CTG Brasil's modernization, implements hierarchical control of quality nodes, increases the owner's participation in quality control, and upgrades the conventional result control to process control. At the same time, the EPS Project Model (design, manufacturing, and technical monitoring) is exploratorily adopted, and the construction is organized by the owner, so as to realize the complete autonomy and controllability of on-site construction management, and promote the safe, efficient and high-quality completion of modernization of the units.

In the past, Chinese hydropower engineers went to Brazil to learn from Brazilian counterparts on hydropower technology. Today, mature Chinese hydropower know-how is brought back to Brazil for a new shine in Brazil Hydropower. Thanks to the modernization, the power generation capacity of Jupia HPP has been improved, and after the full renovation is completed, an additional 160 gigawatt hours of electricity per year can be generated. The Chinese and Brazilian team works together to take advantage of cooperation between the two countries in different fields of technology management and jointly contribute to the sustainable economic and social development in Brazil.



After all technical renovations are completed, the Jupia HPP is estimated to provide an additional **160GWh** of clean electricity to Brazil every year.



 **Case: CTG Brasil invests in electric mobility project**

The electromobility project jointly carried out by CTG Brasil and Lactec, a science and technology institute, and Incharge, a vehicle charger manufacturer, is one of the Research & Development projects carried out under the framework of the "Power Industry Technology R&D Project" initiated by the Brazilian Electricity Regulatory Agency (Aneel). According to the project planning, 18 electric vehicle charging stations are installed along a 1,300-kilometer-long route connecting São Paulo State and Mato Grosso do Sul State, covering all CTG Brasil's HPPs along the Paranapanema River. Additionally, the project plans to extend to nearby areas and partially integrate into the general public charging network to strengthen cooperation with the local community. CTG Brasil's electric mobility projects are in line with its innovation and sustainability strategy as a way of contributing to access to clean energy on a large scale, benefiting society as a whole.



Since 2021, CTG Brasil has been working on a technology that aims to increasingly improve the safety of operating, monitoring and maintenance processes of electrical power systems, increasing the efficiency of field analysis and minimizing human exposure to risks. This picture shows an autonomous robot is inspecting in galleries and substations.



Intellectual Property Protection

CTGI attaches great importance to intellectual property protection and strictly abides by the laws and regulations governing intellectual property in the countries and regions where the Company operates, As of the end of 2022, CTGI has applied for 6 international patents.

In 2022, CTGI actively organised the application of scientific and technological achievements. CTG Brasil has applied for 18 trademarks and 1 patent, obtained 1 software copyright. CTG Brasil was selected as the top ten *Open Innovation Corporation* in the Brazilian power and renewable energy industry, ranking the eighth. CTG Europe was awarded a major award by World Economic Magazine, namely *2022 Germany's Most Innovative Energy Power Plant*.



Environment

Climate change is the defining crisis of our time, and it is happening even more quickly than we feared. Organizations around the world are turning to renewable electricity to meet their energy needs as part of their strategies to combat climate change. These new expectations regarding energy represent business opportunities for us, including the chance to increase our electricity sales to customers seeking a clean energy source. However, clean energy projects may trigger environmental and social impacts. We endeavour to minimize our negative impacts, maximize local benefits and ensure constructive dialogue with all project stakeholders.

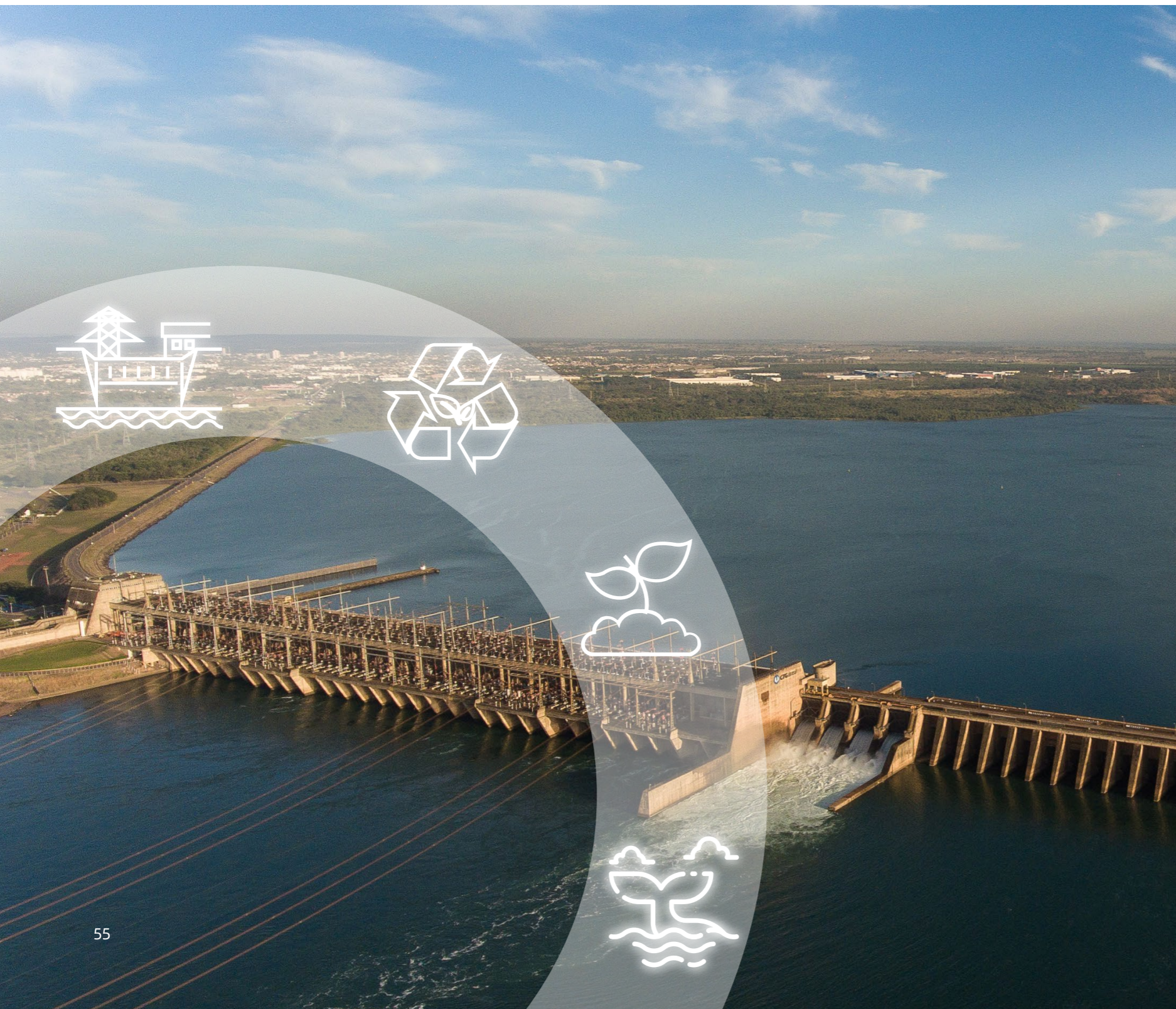
In 2022, CTGI demonstrated a robust commitment to environmental governance and sustainability, underpinned by a comprehensive Environmental Management System. The Company revised its Environmental Protection Policy to align with global best practices and established an environmental management infrastructure at both its headquarters and regional offices. Aiming for 100% ISO 14001:2015 certification, CTGI invested USD2.35 million in technologies and initiatives to mitigate environmental impacts. The Company set ambitious short, medium, and long-term objectives, focusing on increasing recycling rates, improving energy efficiency, and reducing greenhouse gas emissions with a long-term goal of achieving carbon neutrality.

Overall, CTGI's environmental governance in 2022 was marked by strategic planning, significant investment, and a commitment to both local and global sustainability standards. The Company has positioned itself as an action leader in environmental stewardship, aiming to set more benchmarks for its sustainable development.

SDGs addressed in this section:



Environmental Stewardship in Every Phase of Power Stations' Life-cycle



CTGI is deeply committed to exemplary environmental management at every stage of a power station's life-cycle, including feasibility study, site selection, design, construction, operation and maintenance. As a globally recognized investor in the clean energy sector, we go far beyond local environmental standards by integrating advanced management solutions to enhance the ecological efficiency of our constructing and operating power plants.

Our comprehensive approach to environmental protection is meticulously crafted and executed. It begins with the implementation of a robust Environmental Management System that is both adaptive and responsive. We conduct thorough assessments to identify and comply with environmental laws and regulations, ensuring that every power plant is designed, constructed and operated within the legal frameworks of the host country.

Environmental permits are secured after rigorous evaluations and careful scrutinization, ensuring that each project aligns with ecological preservation and sustainability standards. We employ a proactive stance in identifying environmental risks, utilizing innovative tools and methodologies to anticipate, manage and mitigate potential impacts effectively.

In the unlikely event of an environmental incident, CTGI is equipped with a well-structured Emergency Management Plan, ensuring swift, efficient and comprehensive responses to contain and resolve any issues, minimizing ecological impacts.

In essence, CTGI's unwavering commitment to environmental protection is not just a compliance requirement but a core element of our operational ethos, reflecting our dedication to foster a sustainable future while generating clean, efficient, reliable and affordable energy.

Energy Transition

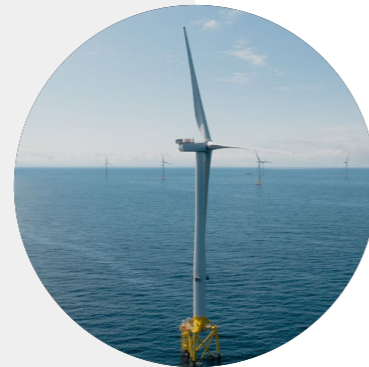
As climate change is one of the most pressing issues we face today, energy transition, driven by the progressive replacement of carbon-based fuels with clean energy, is the key way to tackle climate change. CTGI fully aware that energy transition towards a more sustainable, low-carbon future is accelerating fast worldwide. Therefore, the Company has been focused on playing an essential role in advancing the global energy transition, positioning our investment purely in clean energy sector and building decarbonization solutions for a world that works sustainably, and we commit to help meet the world's needs for reliable, affordable and clean energy.

Green power generation

Energy transition also makes great strategic opportunities to CTGI as our investment only focus in hydro power, solar power, onshore and offshore wind power, hydrogen and other renewable energy. By the end of Year 2022, CTGI's owned and operated 74 power stations all around the world with annual generation of 31.636Twh, of which 100% was green, and equaled to reduction of 5,447,427.46 tons CO₂ emission. In addition, the Company had equity investment of 7.50GW, of which more than 99% was also green. This achievement not only reflects our active response to global challenges of climate change but also shows our firm commitment to reducing global greenhouse gas emissions and the trend of global warming.

Each project embodies our commitment to environmental protection and climate action. We continuously optimize technology and improve efficiency to ensure our energy production is both economical and eco-friendly. Acting's green energy solutions not only provide reliable electricity globally but also help reduce dependence on fossil fuels, thereby slowing the pace of climate change.

We believe that by continuously investing in clean, renewable energy technologies and projects, we can make a significant contribution to building a greener, cleaner, and more sustainable future. CTGI will continue to be dedicated to advancing green energy innovation and application, making an even greater contribution to global climate action.



Energy efficiency and carbon footprint

CTGI is consistently working to improve its energy efficiency and reduce its carbon footprint. We adhere to the principle of energy conservation in our daily operations by encouraging employees to conserve resources and reduce waste. At the same time, we actively provide water and electricity conservation training for employees to enhance their awareness in conserving resources and reducing greenhouse gas emissions.

Green electricity consumption

CTGI also aims to be a pioneer in green power consumption. We achieved 100% green electricity consumption targets in our Beijing Office since November 2022, which equals to reduction of 0.99 ton of CO₂ and 5.54 kgs of SO₂ per our preliminary calculation.



Resource Utilization Performance Data

Indicator	Unit	2022	2021	2020	2019
Power generation by clean energy	TWh	31.636	26.379	31.327	32.337
Emission reduced through clean energy projects	10,000 tons of CO ₂ e	544.74	396.63	453.30	466.65
	10,000 tons of standard coal equivalent	218.51	159.10	181.83	187.18

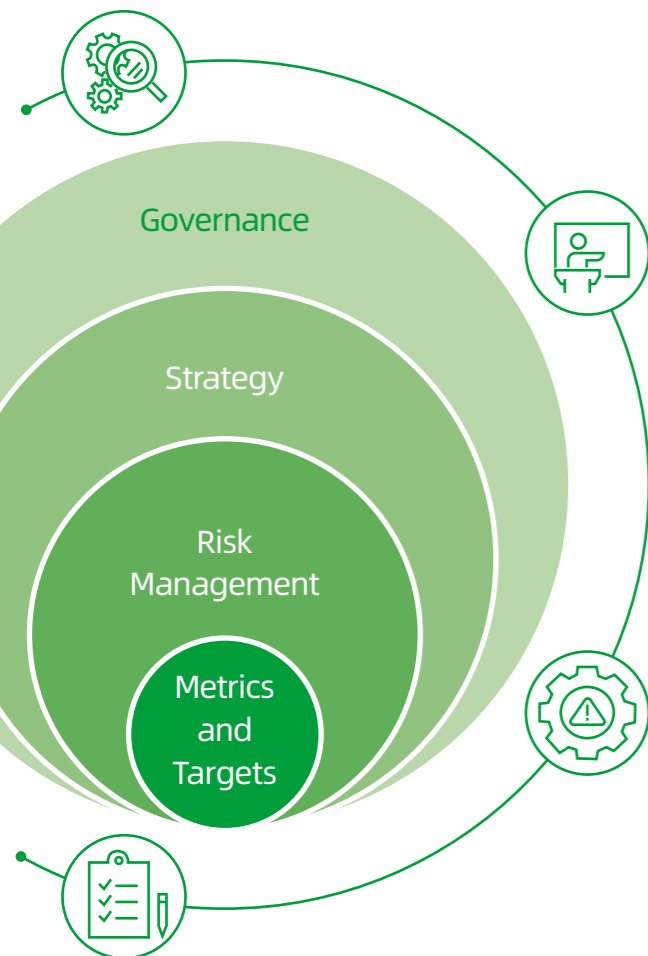
Climate action

Awaring climate change has become one of the biggest challenges of the present and the future, CTGI is proactively responding to this global issue. We consistently support the goals of the Paris Agreement and have taken actions to support further climate-related disclosures.

Governance

At corporate governance level, Board of Directors of CTGI, through its ESG and Related-party Transaction Committee, pays highest attention to and makes decision on climate-related issues, including analyzing climate-related risks and opportunities, setting corresponding strategy, establishing risk management and formulating metrics and targets.

CTGI's ESG Office, at executive level takes the responsibility for setting up a working group special for carbon neutrality issues.



Strategy

The actual and potential risks and opportunities on CTGI's business, strategy and financial planning

CTGI sees itself as a contributor to climate governance through the following aspects:

- Investing in green energy
- Facilitating green industrial chain
- Participating in green innovation
- Utilizing in green finance
- Promoting green standards

Risk management

The processes used by CTGI to identify, assess and manage climate-related risks

CTGI is to review and adopt the methodology and disclosure recommendations provided by the Task Force on Climate-related Financial Disclosures (TCFD)

Metrics and targets

Metrics and targets are used to assess and manage relevant climate-related risks and opportunities.

CTGI plans to set a carbon neutrality target by the end of 2023, with a road map to achieving carbon neutrality.



We aim to promote the development of clean energy, improve energy efficiency by optimizing the energy system, gradually reduce the emission density of greenhouse gases (Scope 1 and Scope 2), and ultimately achieve the long-term goal of carbon neutrality in our operations.

Indicator	Unit	2022
Greenhouse gas emissions	ton CO ₂ eq	11,057.63
Scope 1	ton CO ₂ eq	3,027.19
Scope 2	ton CO ₂ eq	8,030.44
GHG emissions per USD 10k revenue	ton CO ₂ eq/ USD 10K revenue	0.04762



Water and Effluents

CTGI recognizes access to drinking water and proper treatment of sewerage as a universal human right and acknowledges its responsibility in pursuing of SDGs, specifically SDG 15 which contributes to the sustainable use of freshwater ecosystem services, and SDG 7 which seeks to ensure the supply of clean and affordable energy for all.

Water resource management

CTGI's water management focuses on water usage in its power plants and its impact to local water quality and scarcity. To address this concern, impact assessments are carried out during the planning stage of each new project, in compliance with local laws and regulations as well as the Company's internal standards and requirements. This ensures that any impacts from project construction and plant operation are managed and mitigated to an acceptable level. Secondly, CTGI's power stations carry out various water conservation initiatives, depending on site conditions, operational situation and plant age. The amount of water that can be recycled depends on factors such as location, power station design and regulatory requirements.



Case: Water resource management of CTG Brasil

The water resources management optimization is paramount for CTG Brasil's business continuity, not only because water is used to generate power, but also the use of reservoirs is shared with neighboring communities to generate income and leisure.

Concerning the approach adopted to identify impacts on water, CTG Brasil maintains environmental programs, connected with environmental licensing processes, aiming at monitoring the reservoirs water quality. CTG Brasil monitors the volume withdrawn, also the quality of sources employed to supply fresh water at its operational plants, as well as the quality of sanitary effluents. Also, sanitary effluents are monitored through laboratory tests both of effluents released treated in water bodies, and the use of infiltration system soil, and all points of effluents release have concessions or exemptions issued by appropriate environmental agencies. These measures are taken in a scientific way to ensure the sustainable protection of ecosystem and minimum the adverse impacts to the environment.



Water resource protection

Water is a vital resource for CTGI's renewable generation portfolio, especially hydroelectricity. We use river and reservoir water to generate electricity through hydropower plants. The Company is committed to helping protect both the water quality and water supply in river basins where we operate. This is important for the environment, our communities, which depend upon this resource, as well as our business continuity. CTGI aims to protect and utilize water resource efficiently and sustainably in three ways:

Basin Management

- Develop a systematic approach to water environment governance
- Enhance environmental infrastructure construction
- Develop and apply innovative ecological technologies, processes, and models for environmental protection
- Promote the improvement of quality and efficiency of water environmental governance



Water Resource Utilization

- Strive to make the utilisation of water resources in the watershed more efficient
- Coordinate hydropower development and ecological protection
- Continuously improve the utilisation efficiency of water resources, and achieve maximum comprehensive benefits



Water Ecological Protection

- Upgrade the water ecological protection of the river basin more effective
- Conduct research and conservation of rare fish and plants in rivers
- Carry out ecological planning and fish stocking activities in an active and orderly manner
- Ensure the preservation of clear water in the river for future generations



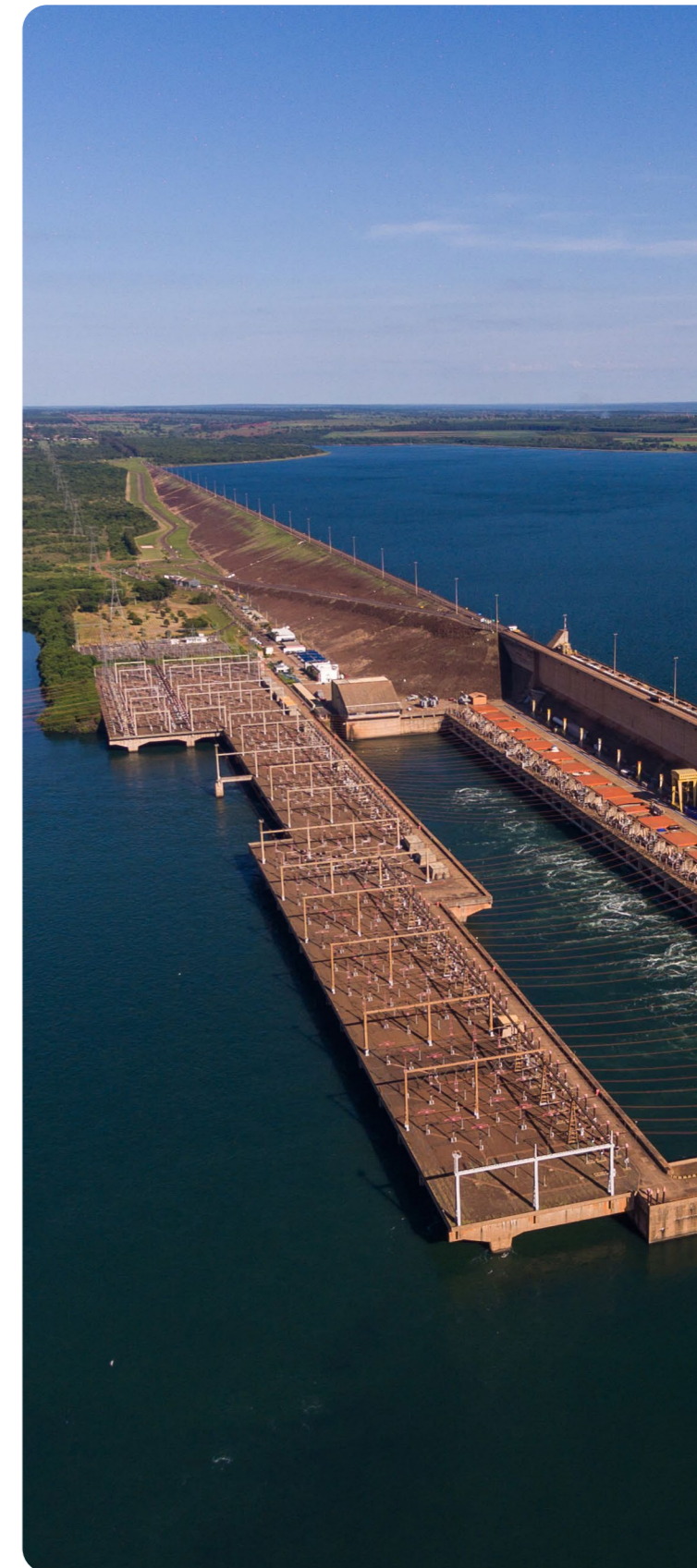
Water risks and impacts

CTGI's Environmental Policy is dedicated to mitigating impacts, managing risks and promoting the continuous improvement of processes, practices and performance in collaboration with stakeholders for the sustainable and efficient use of water. Guided by this Policy, CTGI strictly adheres to the host countries' laws and regulations regarding water resources and wastewater management in all greenfield projects and M&A projects.

We recognize the value of water resources and the importance of protecting the aquatic environment. Consequently, we have established a comprehensive set of CTGI management regulations to ensure that water-related risks are effectively controlled. Our team is focused on implementing and maintaining these regulations to safeguard the environmental safety and sustainable utilization of water resources in the host countries.

Our projects not only comply with local regulations and standards but also actively take measures to exceed these requirements, aiming for the maximized protection and utilization of water resources. Our goal is to contribute to the protection of the world's water resources through innovations in science, technology and management, reducing water waste and mitigating impacts on the aquatic environment.

CTGI is committed to being a global leader in water resource protection and management. Our efforts are not only manifested in regulatory compliance but also in our continuous investment and innovation in water resource protection. We believe that our endeavors can make a significant contribution to the protection and management of water resources in host countries and the world at large.



Biodiversity

CTGI pays great emphasis on the impact of its projects on the biodiversity of host countries and is committed to minimizing these effects. We strictly adhere to the requirements of the host countries and are actively engaged in environmental and biodiversity conservation. No environmental incidents occurred in 2022 under our continuous efforts and guardianship. Regional subsidiaries have taken proactive measures in afforestation, biodiversity conservation, hazardous waste treatment and pollutant discharge, and have promoted the implementation of biodiversity testing plans in projects, further strengthening ecological protection and restoration.

CTGI is always committed to restoring biodiversity and ensuring ecological balance through various innovative methods and practices. We believe that with continuous efforts and investment, we can make a significant contribution to protecting the biodiversity and ecological safety of the host countries.

CTG Brasil's Biodiversity Action

River and aquatic conservation

To protect the ecology and diversity of aquatic species, CTG Brasil has established an Annual Fish Conservation Plan. By the end of 2022, a total of 3.61 million fishes have been released in the Paraná and Paraguay river basins, and fish rescue and release activities were also carried out downstream of the dam during the maintenance and inspection period when the dam was shut down.



Forests restoration

By the end of December 2022, CTG Brasil had completed a total of 150 hectares of afforestation. Ecological restoration work is planned for land acquisition at the Jupia, Ilha Solteira, Salto, Capivara and Taquaruçu hydroelectric power plants. In addition, routine work such as wildlife conservation (mammals, birds, reptiles) has also been implemented.



Ecological protection in Ilha Solteira Zoo

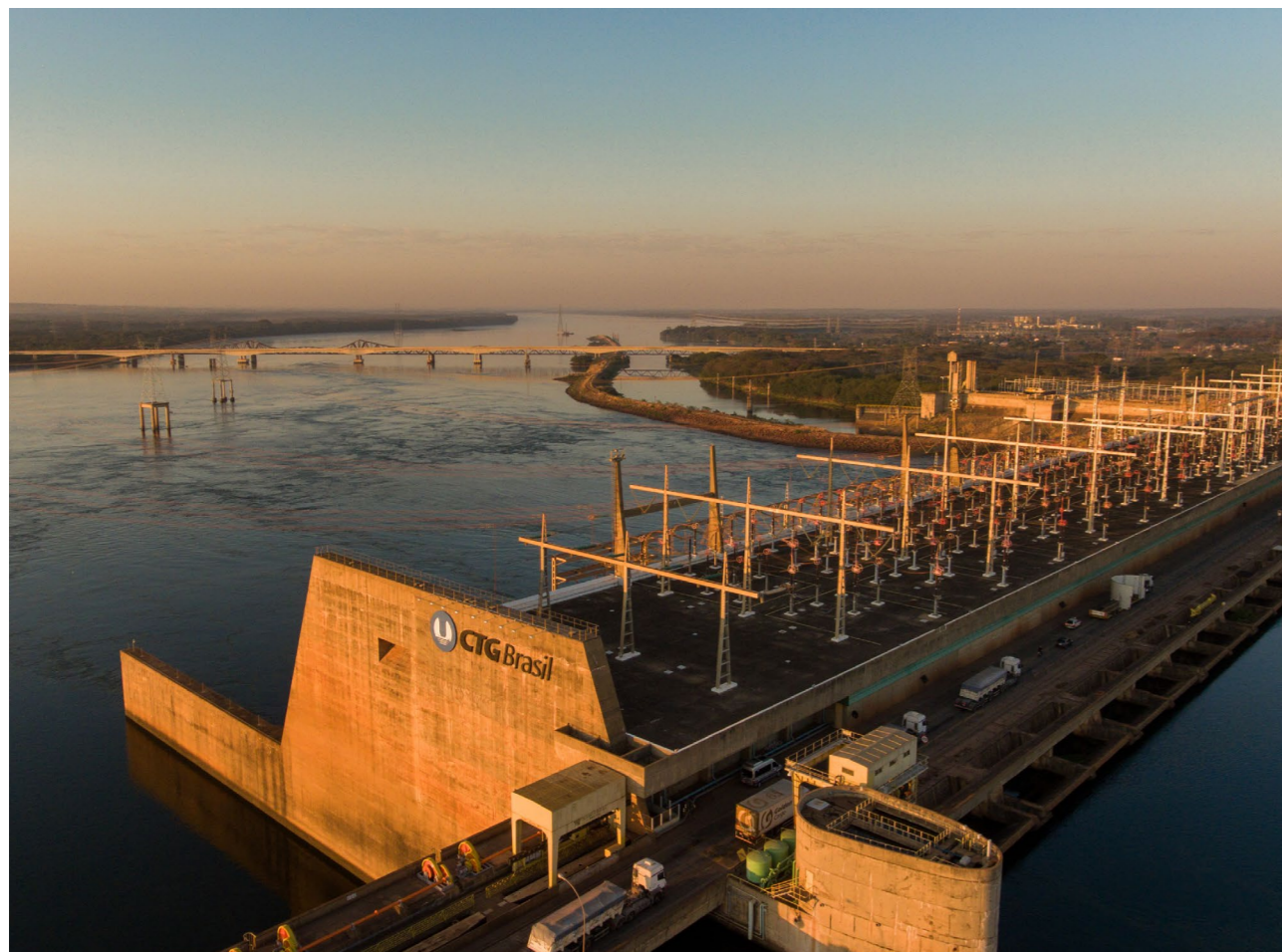
CTG Brasil has hired the third-party organisation Ecologic to handle daily operation and maintenance of the Ilha Solteira Zoo. We conduct animal adoption, protection and medical aid activities every month. In addition, the organisation is responsible for developing new animal habitats, clearing dangerous branches, inspecting and maintaining fire-fighting equipment, improving the zoo environment, and providing care and rehabilitation for jaguar and anteater after surgery. Currently, there are a total of 350 animals in the Zoo, including reptiles, mammals and birds.



Waste

CTGI strictly abides by the laws and regulations, and properly handles all types of wastes in strict compliance with the principles of sorting and recycling and centralized storage and processing. For general solid waste, the Company practices centralized management and recycling or entrusts a third party for recycling and disposal. The waste soil and construction waste generated from construction activities are orderly transported to the waste disposal site for layered landfill. The waste materials and parts replaced during equipment operation, maintenance and repair are collected and disposed regularly.

For hazardous waste, CTGI standardizes its management responsibilities of hazardous chemicals, clarifies the disposal requirements for the procurement, transportation, use, storage, and waste disposal of hazardous chemicals, and entrusts them to third parties with hazardous waste disposal qualifications for recycling and disposal. CTGI continuously optimizes processes to reduce the generation of hazardous waste and provides training to relevant employees to enhance disposal awareness and ability, protect employee safety and reduce environmental pollution.



Case: Natural grassland management in solar project

In the solar farms of CTG Europe, we have adopted an innovative approach to natural grassland management - utilizing sheep grazing to control rangeland vegetation. This eco-friendly practice not only lowers the risk of fire but also reduces the need for herbicides, leading to a decrease in harmful emissions associated with chemical weed control. Besides, more sunlight can reach the solar panels, enhancing energy output efficiency.

This natural method of grassland management not only contributes to ecological diversity but also brings additional environmental and economic benefits to our solar projects, including a cleaner and more sustainable environment.



Case: Spoil bank management in hydropower project

The Karot Hydropower Project in Pakistan places a high emphasis on spoil bank management, particularly in the aspect of vegetation restoration. For the stability and safety of the spoil bank, we opt to plant vegetation with robust roots on it. These plants not only effectively prevent soil erosion and maintain soil stability but also promote the restoration of vegetation and increase green coverage.

Our goal is to achieve long-term stability and ecological restoration of the spoil bank through these comprehensive measures. The locations of the soil bank are carefully selected to ensure that they can adapt to the specific environmental conditions while possessing strong growth ability and resilience. In this way, the Karot Hydropower Project not only ensures the structural safety of the spoil bank but also contributes to promoting ecological diversity and environmental sustainability.





Environmental management objectives

In 2022, CTGI has been continuing to protect heavily to positively impact the environment, with a total of USD3.51 million invested in improving technologies and initiatives to prevent and mitigate the environmental impacts arising from its operations.

Environmental management system

CTGI is committed to managing the environmental impacts of power generation in a responsible manner. In order to improve its resource efficiency and environmental performance, CTGI modifies its Environmental Management System and process annually. In 2022, CTGI revised its Environmental Protection Policy, which sets out CTGI's principles in environmental protection to be adopted by both the headquarters and regional subsidiaries.

Aiming to be the world's leading clean energy company, CTGI fully recognizes its responsibility to global environment. In 2022, the Company made the following environmental progress:

Environmental Compliance

CTGI views environment as a crucial aspect of strategic management and is devoted to minimizing the impacts and dependencies of its activities. To achieve this, CTGI, through its Environmental Policy, has made a series of commitments to ensure the implementation and maintenance of appropriate and effective Environmental Management System, contributing to sustainable development. Based on this Policy, CTGI has outlined specific objectives in environmental areas that are most pertinent to the company's strategy.

To ensure the completeness of the Environmental Management System, CTGI has established ESG Executive Committee at the environmental management level and has set up the Safety and Environment Department at implementation level. Each regional subsidiary has a dedicated environmental management department to ensure the smooth progression

of environmental management tasks. We have developed a comprehensive set of environmental management policies, including risk identification, management and response, ensuring organized and efficient actions in environmental protection.

Our environmental management team either from headquarters or from regional subsidiaries are focused on identifying and managing various environmental risks, developing targeted strategies and measures to mitigate the impacts of these risks on the environment and society. We believe that with this well-established organizational structure and management policies, CTGI can achieve significant accomplishments in environmental protection and sustainable development.



Modify an environmental management system at the headquarters and regional subsidiaries



Conduct environmental and social risk management for new greenfield projects



Conduct environmental due diligence for new M&A projects



Environmental due diligence

CTGI focuses on sustainable development and long-term value creation in its investment and M&A activities. Based on ESG due diligence guidelines and standards, we identify and analyse potential ESG risks, impacts, responsibilities and opportunities that may affect the valuation or reputation of the target company through key operational activities. In 2022, 29 environmental due diligence were conducted.

Environmental risk identification and management

CTGI has developed a comprehensive system for identifying environmental risks, based on the ISO 14001 standard. This systematic approach is designed to identify and manage the environmental risks associated with all of our assets. We recognize that each project presents unique environmental challenges and risks, so we employ internationally recognized standards and methods to ensure every risk is accurately identified and properly managed.

For significant environmental risks identified, CTGI has established targeted management and control measures. Our team of experts develops specific, practical solutions for each type of risk, ensuring effective control and minimizing environmental impact. Our goal is to ensure that none of our projects cause damage to the environment of the host countries.

This approach underscores CTGI's firm commitment and responsibility to environmental protection. We aim not only to comply with the environmental regulations and standards of the host countries but also to make substantial contributions to protecting and improving environmental quality through our expertise and technology. We believe that with continuous effort and innovation, we can make a significant contribution to building a greener, cleaner, and more sustainable future.



Case: Environmental risk management in offshore wind farm

CTGI has established a comprehensive environmental risk identification system for different types of power stations. For instance, one of the key environmental risks of an offshore wind farm is oil leakage, which means that oil may leak from the wind turbine or booster station due to certain reasons, causing oil to enter the sea area and causing environmental pollution.

CTG Europe uses a real-time monitoring system to monitor the operating of the oil filling equipment in its wind farm, and detect anomalies in oil level and temperature data to promptly report and handle them. CTG Europe regularly conducts on-site inspections and maintenance of equipment, regularly maintains or replaces relevant seals, and collects and processes waste oil generated during the maintenance process to avoid arbitrary discharge. The Company also hires third-party professional organizations to inspect on-site equipment every year, to supervise, inspect and certify equipment safety and environmental hazards. In addition, CTG Europe also cooperates with local authorities to carry out emergency drills for maritime safety and environmental accidents every year, ensuring that environmental accidents do not occur in the Project.



Social

As CTGI's success starts with our people, including our employees, suppliers, partners and communities, we strives to improve the quality of life of people around the world where we invest. We are mindful of creating effective collaborations with our talents, suppliers and communities and all others for better life, which also reflects the strengths of CTGI - diversity, dedication and global perspectives, focusing on fulfilling CTGI's clean energy strategy, and operating with the highest level of integrity and delivering sustainable values to our stakeholders.

SDGs addressed in the section:



Human Rights

CTGI recognizes one of its primary duties to protect, respect and fulfill human rights. We try our utmost to in-line with various international, local legal instruments and standards, as well as industry-specific principles and social practices, including the International Bill of Human Rights, the International Labour Organization (ILO) Declaration on Fundamental Principles and Rights at Work, and the United Nations Guiding Principles on Business and Human Rights.



Human rights incorporated into core value

One of CTGI's core values is Respect, and respecting human rights is one of the crucial components of our Respect. We are committed to maintaining a culture that supports human rights and mitigates the risks of human rights violations. Such commitment has also incorporated into the Company's various policies and regulations, which could make sure that the Company will not be complicit in human rights abuses and guarantee elimination of all forms of forced and compulsory labor, the effective abolition of child labor, and the elimination of discrimination in respect of employment and occupation.



Human rights in the workplace

CTGI adheres to the equal, non-discriminatory employment principle, treating employees of different races, skin colors, ethnicities, genders, ages, religious beliefs and cultural backgrounds fairly and properly, and strictly prohibiting and discouraging any form of child or forced labor. It is not allowed to force employees to work or restrict their freedom by means of violence, threat or illegal restriction of personal freedom. Corporal punishment, intimidation, harassment, abuse and any discrimination against employees are prohibited. Through these efforts, we aim to contribute to the high-quality development of the regions with vitality.



Human rights in local communities

CTGI attaches great attention to human rights of the people living around our offices and projects. Especially, during project development and construction process, CTGI conducts specific due diligence on the impact on communities and develops appropriate remediation plans to reduce the negative impact on communities. We maintain dialogue with community stakeholders in many of our projects, to ensure that they are able to participate in the projects to avoid community human rights violations, and we engage independent third-party experts for complex situations.

Our Talent

In CTGI, our people is our most precious resources and crucial to our continuous success. Every employee of the Company is an unique talent who is worth being committed to fulfilling their potential. Besides maintaining a safe, healthy and comfortable working environment, the Company also focus on empowering our people at various levels and grades, cultivating a diverse, equitable and inclusive culture as well as taking care of our peoples' health and safety.

Empowering our people

We believe that each people of CTGI is an unique talent that fueled our success. We make ongoing efforts to attract global talents from different backgrounds to build a diversified talent pool. We try our best to provide our employees with an equal and diverse working environment, competitive remuneration packages and welfare benefits as well as a promising career development platform.



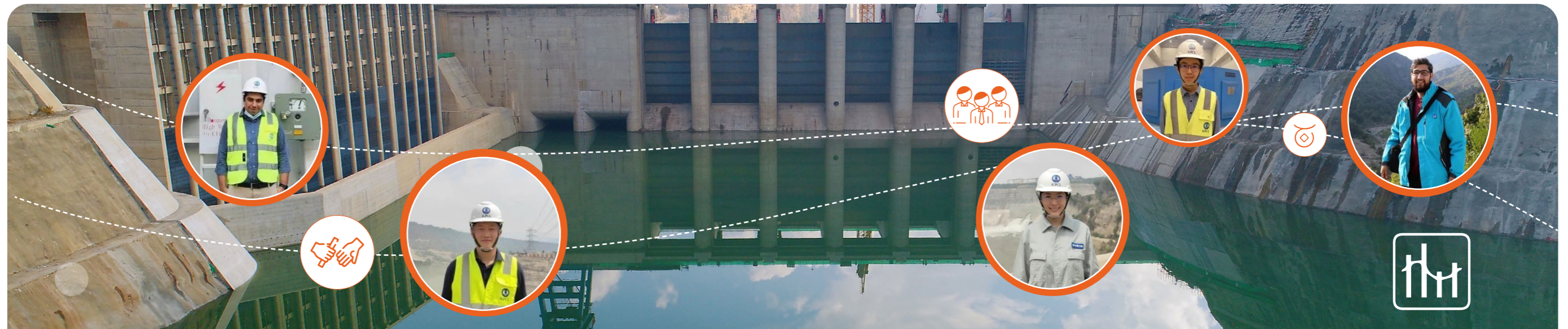
One of the main objectives of CTGI is to build an environment that provides each professional with a full journey of development--from the moment of attraction and during their development at the Company. The cycle of promotions and merits and the sharing of value generated have been effective instruments in this process of continuous and reciprocal development between people and the Company.

We also provide opportunities to enable each professional to take the lead in their career development.

Case: Young doctoral team drives talent attraction and dynamic contribution

CTGI places great importance on providing opportunities to enlighten each talent's motivation and take the lead in their career development. A notable example is the vibrant professional team with PhD education background working with Karot Power Company Limited (KPCL), the project company for Karot Hydropower Project in Pakistan. The team is composed of 4 male and 1 female talents, who are professionals in Civil Engineering, Electric Engineering, Hydraulic Engineering and Laws respectively. KPCL encourages the team

working closely, discussing key issues of the project and proposing their suggestions to the management team from time to time. Through this model, KPCL keeps inspiring the talents' exceptional knowledge, dedication and unwavering enthusiasm as well as their contributions of building a world-class clean energy group.



Training and development

As the energy industry goes through a massive transition, developing employees' skills and employability is a key focus for the competitiveness and performance of a clean energy group like CTGI. CTGI provides employees with both comprehensive training and career guidance, and designs career development paths to help employees realize their values. To ensure the successful roll-out of our clean energy strategy, CTGI offers numerous learning opportunities and innovative training courses.

Training for new joiners

Every year, CTGI organizes multiple training programmes for new joiners, which cover the Company's vision and strategy, business model, M&A, investment management, corporate culture, etc. Such training courses could assist the new joiners to better understand the Company's strategy and their personal roles as soon as possible. The Company also launches the Tutor Programme, each new joiner will be guided by a professional and experienced senior staff of the Company for the first year in their daily work.

Professional training

As an international clean energy enterprise, CTGI always maintains sensitivity to the sustainable development trends. In order to build a premier team which enables the Company's continuous development following the global trends, we curate professional training to improve the capability of employees. Supported by hybrid learning, CTGI expands the coverage of training to more employees and enriches the learning content, effectively improving the professionalism of employees, broadening their understanding of the industry and fostering the desired leadership development. We also collaborate with institutes and organizations to give lectures and share experiences, making employees keep abreast of industry trends.



Internal knowledge sharing

For better promoting the development and empowerment of employees, we always encourage our talents to share their knowledge to other colleagues in the form of internal knowledge sharing.



Case: CTG Brasil Academy builds learning ecosystem to empower employees' development

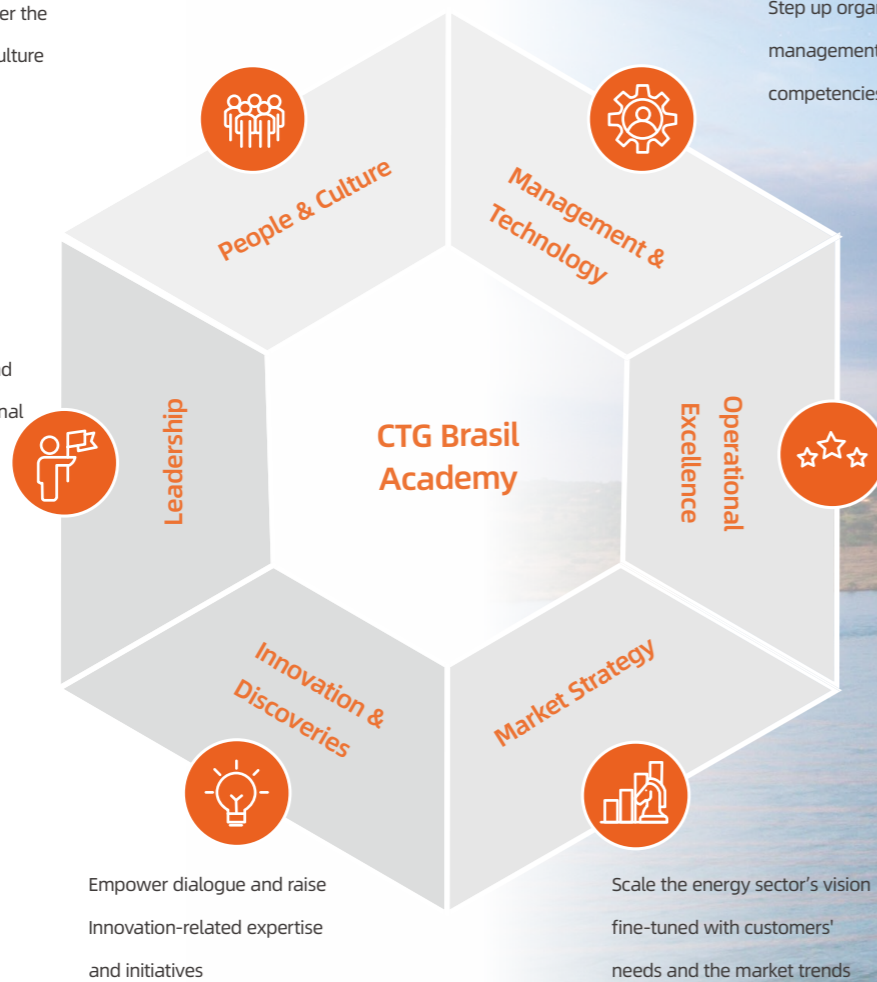
One of CTG Brasil's key objectives is to build an environment that provides each professional with a fully-fledged development journey. From onboarding, opportunities are offered to enable each professional to play the leading role of his/her career development. The CTG Brasil Academy, the Company's learning ecosystem has six fronts of content, and for the past two years has been contributing to its Cultural Transformation Journey, expertise management, and the achievement of the Company's strategy.

Evolve and bolster the organizational culture

Step up organizational management's competencies development

Prepare leaders to manage people and for the organizational challenges connected with strategy

Achieve the highest operational excellence standard





Diversity and inclusion

As a global enterprise, diversity and inclusion are embedded in CTGI's DNA. We endeavour to create a harmonious culture that promotes diversity, inclusion and a sense of belonging for all employees.

For CTGI, diversity means differences in gender, age, expertise, cultural background, nationality, experience, ethnicity, ability and religious beliefs, etc. - everything that shapes who we are and our perspectives. We strive to build a diversified and inclusive cultural atmosphere for employees, and respect different cultural customs in different regions and equally provide care for all employees.

With offices and operations in 16 countries across 5 continents, CTGI has diverse workforce and management team with different cultural and professional backgrounds. Such personal, physical and social characteristics urge us to understand diversity in the broadest and continuously work to improve our diversity.

We deeply value the impact and contributions made by female talents throughout the Company. However, in 2022, as 38 percent of all our colleagues are women, gender balance remains a key issue for us. We have one female director in the Board at the moment and therefore we set targets for a more gender-balanced leadership in coming years.



Case: "We Are Buddy" Program for better integration

CTG Brasil regards cultural exchange program as an effective means of cross-cultural management and believes in the power of cultural integration, and always encourages its teams to share knowledge, experiences and customs from different cultures.

In terms to strengthen the cultural integration between the Brazilian and Chinese teams, CTG Brasil has launched the "We Are Buddy" Program to assist new Chinese employees during their first year in Brazil, helping them during the initial transition phase and also provides necessary assistance in daily life, so that they get adapt themselves faster and better in Brazil. After the buddies are matched, CTG Brasil carries out a number of events to enrich the experience exchanging between the buddies, such as webinars on the importance of cultural intelligence and team building activities.

Such cultural exchange promotes understanding and friendship, deepens employees' understanding of different cultures, and also allows Chinese employees to quickly adapt to the new work and living environment. The Brazilian and Chinese colleagues know better about each other's culture and work as one team with mutual trust and respect.



Health, safety and welfare

CTGI cares about our people. Our dedication to employees' health and safety helps us attract, retain and protect the best talents. We implement various measures to ensure health and safety awareness, maintain a safety working environment, and promote physical and mental health. We believe that by taking care of our employees and their families, we create a positive and supportive working environment that promotes healthy personal and professional development.











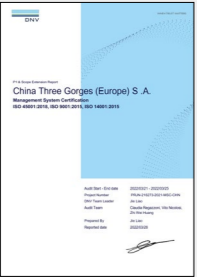



ISO certification

CTGI and its regional subsidiaries have been certified in meeting the requirements of ISO 45001-Occupational Health and Safety Management Systems as well as ISO 14001 and ISO 9001, which reflects our compliance with internationally recognized regulation and standards.

Health promotion

Medical services manage occupational health as an integrated whole, concerned not only with the physical environment, but also the psychosocial, emotional and healthy lifestyle state of personnel, both in the employee's professional and personal lives. In addition, the prevention of occupational hazards is integrated into the activities, processes, practices and facilities across all of CTGI's business units.

CTGI provides all employees with a comprehensive set of healthcare programmes that meet the fundamental needs of themselves and their families, including health and medical package that complement public health services in various countries, and personal accident and life insurance.

<p>CTGI</p>	<p>ISO 45001</p> 	<p>ISO 14001</p> 	<p>ISO 9001</p> 	<p>CTG Brasil</p>	<p>ISO 45001</p> 	<p>ISO 14001</p> 	<p>ISO 9001</p> 	<p>ISO 9001</p> 
<p>CTG South Asia</p>				<p>CTG Latin America</p> <p>CTG LatAm has completed the first phase of its Occupational Health and Safety (OHS) System, which has been certified by the local professional agency. Meanwhile, two OHS committees of the Company have been established, namely the Occupational Health Committee and the Labor Welfare Committee.</p> 				
<p>CTG Europe</p>								

Safety management

Safety is one of CTGI's fundamental values, and people-oriented approach is at the core of our sustainable agenda. Ensuring the safety of employees and power stations during construction and operation is CTGI's top priority. For us, anyone counts, any safety issue matters.

CTGI has a comprehensive Safety Management System in place, in accordance with ISO 45001, which is constituted by the set of responsibilities, processes and resources needed to carry out the management of production processes.

Oversight of safety in construction, operation and maintenance of each power plant sits at the highest level of CTGI. The Company's Safety Committee is briefed quarterly on performance. The CEO and CSO of each regional subsidiary is responsible for the safety of the subsidiary, with support from a dedicated team of environmental and safety specialists. In Year of 2022, CTGI held 4 regular Safety Committee meetings and 2 special ones.

With the aim of strengthening risk awareness and promoting responsible behaviour to ensure that work is undertaken in compliance with the safety requirements, appropriate measures are taken to control the risks to avoid accidents.

To ensure that all operations are performed safely, CTGI implements a safety risk assessment encompassing all levels of the Company. This assessment is undertaken twice a year by identifying and analyzing the potential safety risks and formulating a risk matrix which is updated timely. In addition, site safety inspections are also carried out regularly.



Case: CSAIL conducted on-site safety inspection for Egypt Solar Project

To eliminate major safety hazards and mitigate major safety risks, CSAIL carried out a comprehensive on-site safety inspection for the Egypt Solar Project on May 22-23. The inspection focused on key areas such as equipment rectification, self-maintenance readiness, operations and maintenance, establishment of technical assurance system, compliance with work permits, and implementation of the dual governance mechanism for safety production. Effective training and communication were also carried out with the on-site team, reinforcing CTGI's safety philosophy of "Prioritize Life, Safety First."



Safety training

In order to enhance the awareness and capability of safety, we have held safety trainings through our Safety Training Program and released Safety Manual to all employees. The curriculum is tailored to employees' individual program and job responsibilities, while factoring in relevant regulations and compliance.



Safety Training Program of CTGI

CTGI has established a long-term mechanism for safety training. In 2022, our global regional subsidiaries conducted a total of 36 simulation drills and practical exercises, involving 610 participants. The drills covered various scenarios such as emergency response to external intrusion and confined space. These drills greatly enhanced employees' safety awareness and emergency response capabilities, providing an extra layer of protection for their physical and personal safety in complex international working environments.



Case: Dam and reservoir safety management of CTG Brasil

One of CTG Brasil's priorities is the responsible and diligent management of its reservoirs and dams, guided by dialogues with stakeholders in the surrounding communities, to ensure the safety of the CTG Brasil's operations.

With climate changes, severe events become more frequent. Prolonged dry season or heavy rainfall can alter the normal operation's standards. To ensure proper handling management of these situations, CTG Brasil relies on the Operation & Emergency System (SOSEm), which is an action plan that foresees operational measures and criteria for issuing alert bulletins and notifications to local governments and civil defense departments. During flood period, the status of the hydropower station's flood discharge is continuously updated to the community through news portal and social media.

CTG Brasil has completed the implementation of the Emergency Action Plan (PAE), with a focus on managing the impacts caused by dam collapse and has been implementing various initiatives to upgrade and enhance dams monitoring system of its hydropower plants portfolio in Brazil. The automation process is first implemented at the Ilha Solteira, Jupia and Salto plants, allowing a real-time data collection of instruments that are essential in identifying any irregularity in the structures. This represents almost 20% of the current monitoring centers. In addition, 228 new instruments were incorporated into the current monitoring system, ensuring greater comprehensiveness and reliability overseeing the safety of these dams. CTG Brasil considers this process to be of strategic importance and will have an investment of nearly R\$26 million, covering 11 of CTG Brasil's hydropower projects.



Caring for employees' needs

CTGI also formulates a comprehensive incentive mechanism and welfare system with internal fairness and external competitiveness for employees, aiming to enhance employees' sense of achievement and satisfaction from multiple fronts. Additionally, CTGI is dedicated to fostering a harmonious communication atmosphere where our employees can thrive. We listen to employees' needs, as well as continuously optimize the work environment and support the well-being of our employees and their families, thus enhancing employees' cohesion and sense of belonging.

Case: CTGI provides Summer Daycare Program for employees' children

Recognizing the importance of work-life balance, in 2022, CTGI HQ offered a Summer Daycare Program during school summer vacation to ensure that employees' children were well taken care of while their parents were at work. The Summer Daycare Program recruited teachers to take care of the children and arranged a series of activities, such as singing, dancing and painting.



Supplier

Suppliers are our partners in the journey to sustainable growth, and our collaboration brings long-term value and benefits to our shareholders, employees, communities and the environment. CTGI is committed to establishing stable, sound and win-win relationships with suppliers based on trust, under the principles of transparency and risk management. We are dedicated to extending the sustainable culture of CTGI to the suppliers, and continuously promoting the green development of the supply chain by strengthening communication and cooperation with suppliers in corporate social responsibility promotion and low-carbon transformation.

Responsible procurement

We understand our responsibility to encourage sustainable practices across our suppliers. Through responsible procurement, CTGI is minimizing negative impacts and making positive influence over our supply chains.

CTGI executes procurement following the principles of transparency, fair, voluntary and free negotiation in accordance with relevant systems and requirements, so as to ensure the legal compliance of the procurement process and protect the legitimate rights and interests of all parties of the supply chain.

100%



All suppliers are required to sign compliance commitments when signing contracts.

2242



Number of qualified suppliers with active contract at the end of 2022

Number of supplies with active contract by region

Region	2020	2021	2022
CTGI	70	169	305
CTG South Asia	24	134	238
CTG Europe	29	67	197
CTG Brasil	302	863	1394
CTG Latin America	0	34	96
CTG Asia-Africa	0	0	12

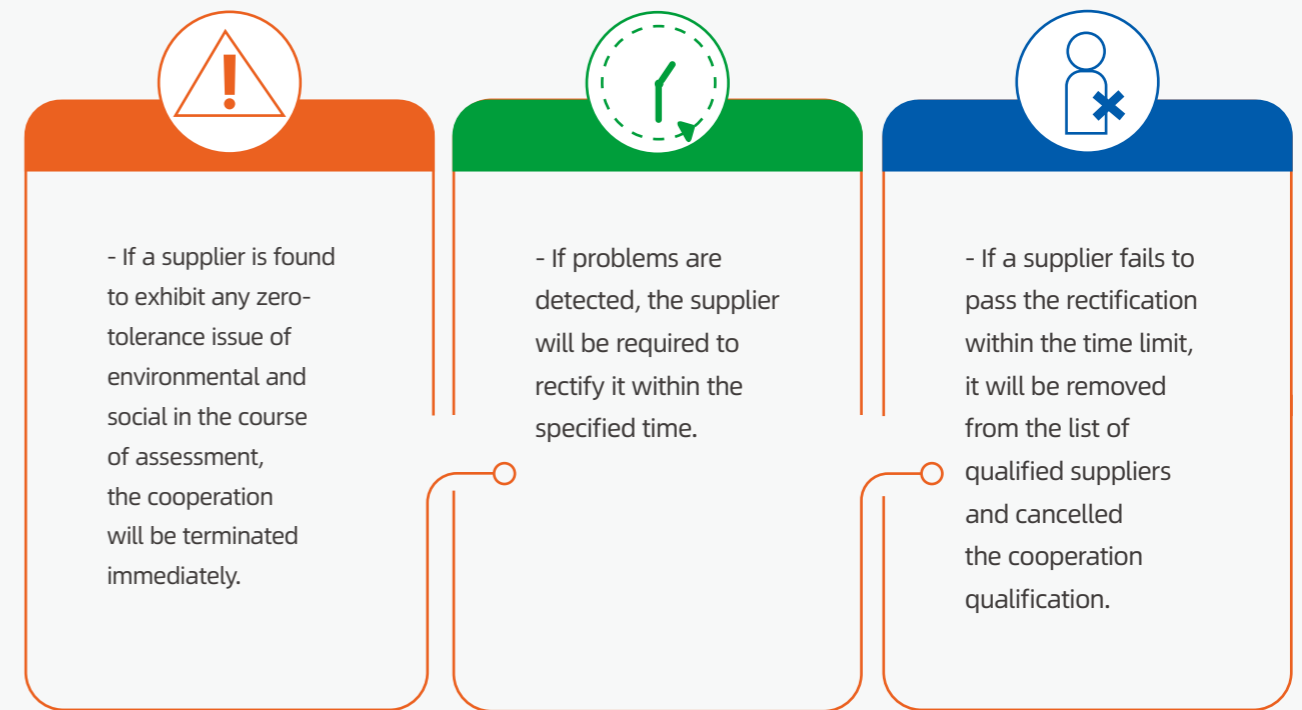
Supplier management

CTGI has established an assessment and selection system for suppliers, setting up strict management processes covering supplier sourcing, access and elimination, examination and evaluation, performance evaluation, communication and exchange, to ensure closed-loop management of the supply chain.



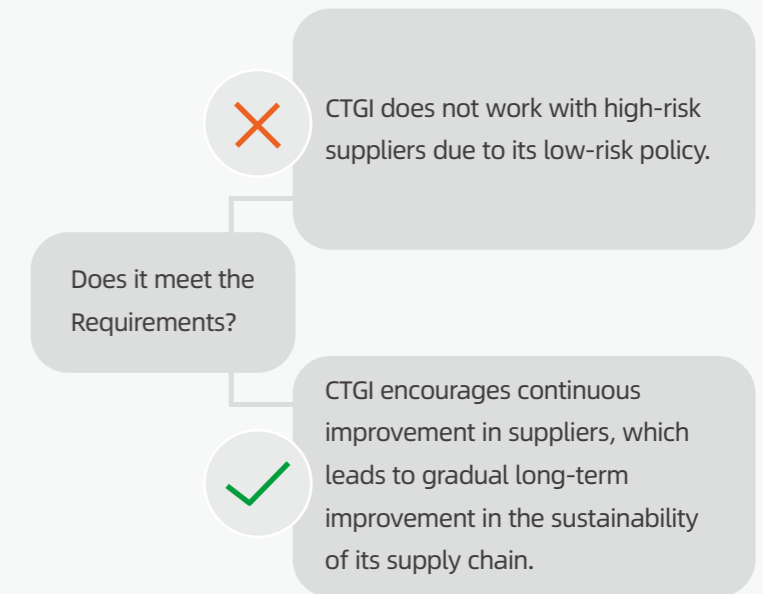
Case: CTG Brasil organizes safety workshop for contractors

Site construction contractors and equipment manufacturers are our most important suppliers. CTG Brasil places great emphasis on the safety of all project contractors. In light of this, CTG Brasil organised a workshop for representatives from 23 contracting companies involved in high-risk activities at the hydroelectric power plants. The workshop featured presentations by CTG Brasil's Health and Safety team, Contract Management team, Legal team, and Compliance and Risk team. Additionally, experts were invited to deliver lectures and engage in interactive discussions on safety practices. The objective was to collectively explore ways to mitigate risks and establish a safe environment for all contractors involved.



Criticality analysis

- Defines minimum, specific sustainability requirements for each contract, that suppliers must accept and fulfil
- Risk analysis of the suppliers to be consulted
- Evaluation of suppliers
- Results of associated companies
- Information on Corporate Social Responsibility
- Experience/results of similar contracts with other organisations



CTGI Supplier selection



Community

Being an integral component of the communities where we invest and operate, CTGI always highlights the sustainable growth and development of local communities and society. We aim to generate more sustainable value, both directly and indirectly, through our contribution to local economy, foster professionals, development of local society and investments to the communities.

Social impact management

CTGI always cares for the potential social impact to the communities where we invest. Each new project shall carry out social impact analysis and associated action plan before investment. We continuously learn that demand, requirements and expectation of the communities from time to time through consultation, regular meetings and ongoing dialogues.

Karot Power Company (Pvt.) Ltd. (KPCL) updated the grievance resolution mechanism and formulated the Community Relation Management Plan (CRMP) and established a leadership group and office to promote community relation management. As of now, the project company has established continuous and stable connections with 20 villages surrounding Karot Project by holding monthly meetings with the focal persons and placing grievance boxes to address the concerns of the villagers and provided timely feedback. KPCL has received a total of 15 complaints from local villagers, 14 of which have been resolved, and the remaining 1 is actively communicating and handling at the end of 2022.

Contribution to local economy

CTGI seeks to contribute to the sustainable growth of local economy through tax revenue, providing of affordable clean energy, creating job opportunities, procuring goods and services locally, participating upgradation of local industrial chain.



Case: Karot Hydropower Project's contribution to local economy

Each year, the Karot Hydropower Project supplies clean and affordable energy to 5,000,000 local residents, saves approximately 1,400,000 tonnes of standard coal and reduces 3,500,000 tonnes of carbon dioxide emissions. The project offers 5,000 jobs during the peak time of construction and launches near 20 public welfare projects including upgradation and construction of schools, hospitals, roads, parks and other public infrastructures.





Case: CTG Brasil facilitates local economic recovery



In collaboration with renowned local NGOs, Instituto Meio and Ashoka Brazil Organisation, CTG Brasil initiated a pilot project focused on revenue generation and entrepreneurship, along with an innovative challenge in sustainable tourism. These projects aimed to assist local farmers and small business owners in overcoming poverty, fostering economic innovation, and facilitating community transformation and advancement.

In 2022, CTG Brasil collaborated with three local family agriculture associations, making a significant investment of 112,465USD. This funding was used to acquire essential materials, equipment, and greenhouses for the cultivation of strawberries and vegetables. Moreover, the program also provided valuable support through 88 hours of technical training, guidance in business management, and exploration of new market opportunities. The outcomes of this initiative were already evident in 2022. The average income of the 86 direct beneficiaries more than doubled, demonstrating the positive impact of the program. Furthermore, agricultural production experienced a remarkable three-fold increase, indicating the success and effectiveness of the project.

This case was recognised as the "Best Poverty Reduction Case" in the 3rd Global Poverty Reduction Case Collection, showing international acknowledgment of CTGI's outstanding performance in fulfilling its global responsibilities.

Foster of local professionals in clean energy sector

Professional personnel is a crucial pillar of sustainable development for local society. CTGI also dedicates to foster local professionals in clean energy sector of the countries/regions where it invests and operates.



Case: CSAIL's Wind Projects foster local talents

Three wind projects, located near Karachi, are part of the investment projects operated by CSAIL in Pakistan. During the projects' construction phase, CSAIL prioritized sourcing local suppliers that met construction requirements and fostered a group of excellent talents in local clean energy sectors.

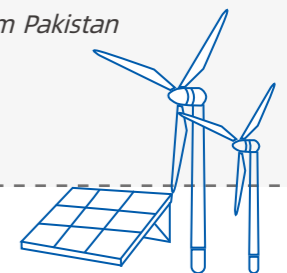


Building the Hometown with Pakistani Employees



Through the successful construction and operation of the CSAIL's Wind Projects, we have cultivated a large number of professional talents in the wind power industry in Pakistan. Many local engineers who participated in our projects have become key professional members of other local wind power projects.

- Sun Qiang, General Manager of Three Gorges First Wind Farm Pakistan (Pvt.) Ltd.



Community investment

Being an integral part of the region where we operate and a driver to promote local social harmony and development, CTGI takes the initiative to assume responsibility for the society in the process of business development, and carries out public welfare and charitable matters by donation. We develop community investment strategies based on the Company's strategy, and we develop annual Corporate Social Responsibility (CSR) Plan, engaging and collaborating with community members, stakeholders and local governments to implement projects based on communication and community needs that help build and sustain economic growth while improving social conditions.

CTGI's commitment to community's well-being is exemplified through various initiatives aimed at addressing critical social challenges. These efforts

encompass disaster relief, healthcare support, education, infrastructure development and poverty alleviation. By actively participating in these endeavours, CTGI demonstrates its dedication to improve the livelihoods of local communities and make a positive impact on society.

Throughout 2022, we have carried out 33 CSR projects, including highly varied initiatives such as establishing harmonious relations with local communities, contributing to the professional development of the population, improving health care and education, applying diversity and gender equality programs, enhancing the percentages of local recruitment of staff and suppliers, and guaranteeing a decent living wage.



Social investment to the community 6.20 million USD

\$ 6.20 million USD



Case: CTG Europe protects children and adolescent rights

CTG Europe strives to promote social equality and establish an internationally responsible and accountable corporate image by contributing to the protection and realisation of the rights of underprivileged children.

The Company actively participates in the Spanish Government's "Reducing Childhood Obesity 2022-2030 National Strategic Plan" to safeguard the health rights of children and adolescents by contributing 150,000 Euros to the CSAI Foundation of the Spanish Government to support and facilitate the smooth implementation of this plan. This effort could assist the Spanish Government in achieving its goal of reducing childhood obesity by 25% and narrowing the associated social disparities by 40% by 2030.

In addition, the Company joins the "Country Alliance for Zero Child Poverty" initiated by the Spanish Government's Office of the High Commissioner for the Fight against Child Poverty. Within the framework of this alliance, CTG Europe actively fulfils its social responsibilities, assisting underprivileged children and adolescents in accessing educational and training opportunities and safeguarding their rights.



CTG Europe actively engages in the Spanish Government's "Reducing Childhood Obesity 2022-2030 National Strategic Plan".

The signing ceremony of CTG Europe's joining in the "Country Alliance for Zero Child Poverty" in Palace of Moncloa, Prime Minister of Spain's Palace





Case: CSAIL's public welfare projects improve the livelihood of local communities

CSAIL contributes to the development of local communities in Pakistan, by implementing 20 public welfare projects in the vicinity, including schools, hospitals, roads and other public facilities.



Four schools in Kannad Village, Teshil Kahuta and Hollar Village, have been upgraded or rehabilitated to improve local education facilities.

The newly constructed Emergency Block (Trauma Center) at THQ Hospital Kahuta, Punjab contributes to increase the capacity of receiving patients in the area.



Kanand Road was constructed around project area to provide access for the villagers of Kanand.

The rehabilitated Kahuta Club together with indoor and outdoor sports facilities are provided as a hub for recreational activities of Kahuta.



The new Public Park at Hollar, AJ&K provides recreational place for local communities.



Case: CSAIL extends help to Pakistani People suffered natural disasters

Acknowledging that thousands of Pakistani people suffered a severe flood disaster in the mid of 2022, CSAIL donated 650,000USD and 600,000 Pakistani Rupees to the suffered families through National Disaster Management Authority (NDMA) of Pakistan. In addition, CSAIL quickly mobilized manpower and resources to extend assistance to Pakistan in the face of previous earthquake and flood disaster.

Then Prime Minister of Pakistan, Shahbaz Sharif, expressed heartfelt gratitude to CSAIL for its contributions to promoting Pakistan's economic and social development, and fulfilment of social responsibilities.





Case: CTGI supports educational philanthropy in different countries

Education plays a vital role in shaping the future and empowering individuals to achieve their potential. CTGI is firmly committed to promoting local education and development, as demonstrated through various initiatives aimed at nurturing minds and fostering growth.

CTG Europe has initiated its first "China-Spain Educational Philanthropy Fund" in Spain, providing opportunities for outstanding students from the University of Salamanca to study and pursue further education in China. CTG Europe plans to expand its cooperation with more renowned Spanish universities, showcasing the image of a responsible and accountable company.



CTG LatAm established the "CTGI Colombia Scholarship" in May 2022. The project involves collaborating with four local renowned universities to select 20 students participating in a four-month Chinese language course. This initiative greatly stimulates students' interest in Chinese culture and strengthens the cultural exchange and understanding between the two countries.



CTG Brasil sponsors music program - "Gather Our Voices, Illuminate Children's Future" which aims to provide free music learning opportunities, including music initiation, choir, folk guitar and percussion, to children and adolescents aged 6 to 18. This initiative by CTG Brasil uses music to positively impact the lives of children and young people, benefiting local communities.



CTG Brasil donated 154 used mechanical components to the Federal Institute of Mato Grosso do Sul (IFMS) in Brazil for the purpose of the institute's professional courses. This action not only provides an alternative to conventional disposal of used equipment, but also helps reduce environmental impact and contributes to the technical training of young people in the community. It reflects the Company's commitment to sustainable development embedded in its activities, creating value for all stakeholders.

Walterisio Gonçalves Carneiro Júnior, Director of IFMS, stated that the donation from CTG Brasil demonstrates the company's social and environmental responsibility while also assisting the institution in fulfilling its mission of promoting excellent education in various technical and technological fields through teaching, research, and outreach.



Sports can be a great partner to improve the life quality of children and young people, providing physical activity and also ethical training, developing respect and principles, which are basic actions for everyone's development. In partnership with "Instituto Futebol de Rua" (Street Football Institute), CTG Brasil helps and contributes to social transformation through football training. By the end of 2022, the project has benefited more than 7,500 people.



Appendix

Contribution to SDGs

SDGs	CTGI practices
	<ul style="list-style-type: none"> Contributing to local economic development Driving the development of clean energy industry and solving local employment problems
	<ul style="list-style-type: none"> Actively investing in community and support local livelihood
	<ul style="list-style-type: none"> Offering a set of benefits in line with our employees' needs including healthcare and safety training Establishing Occupational Health and Safety (OHS)
	<ul style="list-style-type: none"> Taking active measures to improve the educational environment and the quality of education in project areas
	<ul style="list-style-type: none"> Providing equal recruitment opportunities Creating a culture of diversity and inclusion
	<ul style="list-style-type: none"> Water resource management Protecting rare fish species Taking environmental protection measures through all life cycle of power station
	<ul style="list-style-type: none"> Providing 100% clean energy in an affordable way
	<ul style="list-style-type: none"> Creating employment opportunities to local communities

SDGs	CTGI practices
	<ul style="list-style-type: none"> Investing in new technologies such as hydrogen, energy storage and new energy vehicles Intellectual property protection Establishing the innovation platform
	<ul style="list-style-type: none"> Practice of localization management in global projects
	<ul style="list-style-type: none"> Constructing green infrastructure to support low-carbon transition
	<ul style="list-style-type: none"> Enhancing waste management Reducing water and air emission Sustainable supply chain Preferring environmentally friendly products and services
	<ul style="list-style-type: none"> Managing climate risks Making carbon neutrality plan Reducing carbon footprint in operation Diversifying clean energy portfolio
	<ul style="list-style-type: none"> R&D investment to protect life in the river Caring about river basin
	<ul style="list-style-type: none"> Biodiversity conservation Pollution prevention Forests restoration
	<ul style="list-style-type: none"> Setting up a modern corporate governance system Compliance and risk management
	<ul style="list-style-type: none"> Deepening stakeholders' engagement Advancing International cooperation

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Feedback

Dear readers,

Thank you for reading CTGI 2022 ESG Report. Please kindly fill the feedback form and submit it. It will help improve CTGI's sustainable development and the report quality. We hereby commit to keeping your personal information in strict confidentiality.

Contact information

* Name: _____

* Email: _____

* Which stakeholder do you belong to?

Employee Customer Government General public

Supplier NGO Other _____

Your feedback:

* Overall impression of the Report:

Excellent Good Normal Bad

* What do you think of the disclosure of CTGI's environmental responsibility in the Report?

Excellent Good Normal Bad

* What do you think of the disclosure of CTGI's social responsibility in the Report?

Excellent Good Normal Bad

* What do you think of the disclosure of CTGI's governance responsibility in the Report?

Excellent Good Normal Bad

* Has the Report provided the information you want?

Yes No

* Is the content and design layout of the Report easy to read?

Yes No

* What information do you want to know but is not reflected in the Report?

* What opinions and suggestions do you have on our sustainable development?

* What additional information do you want to know from the ESG Report of CTGI?
