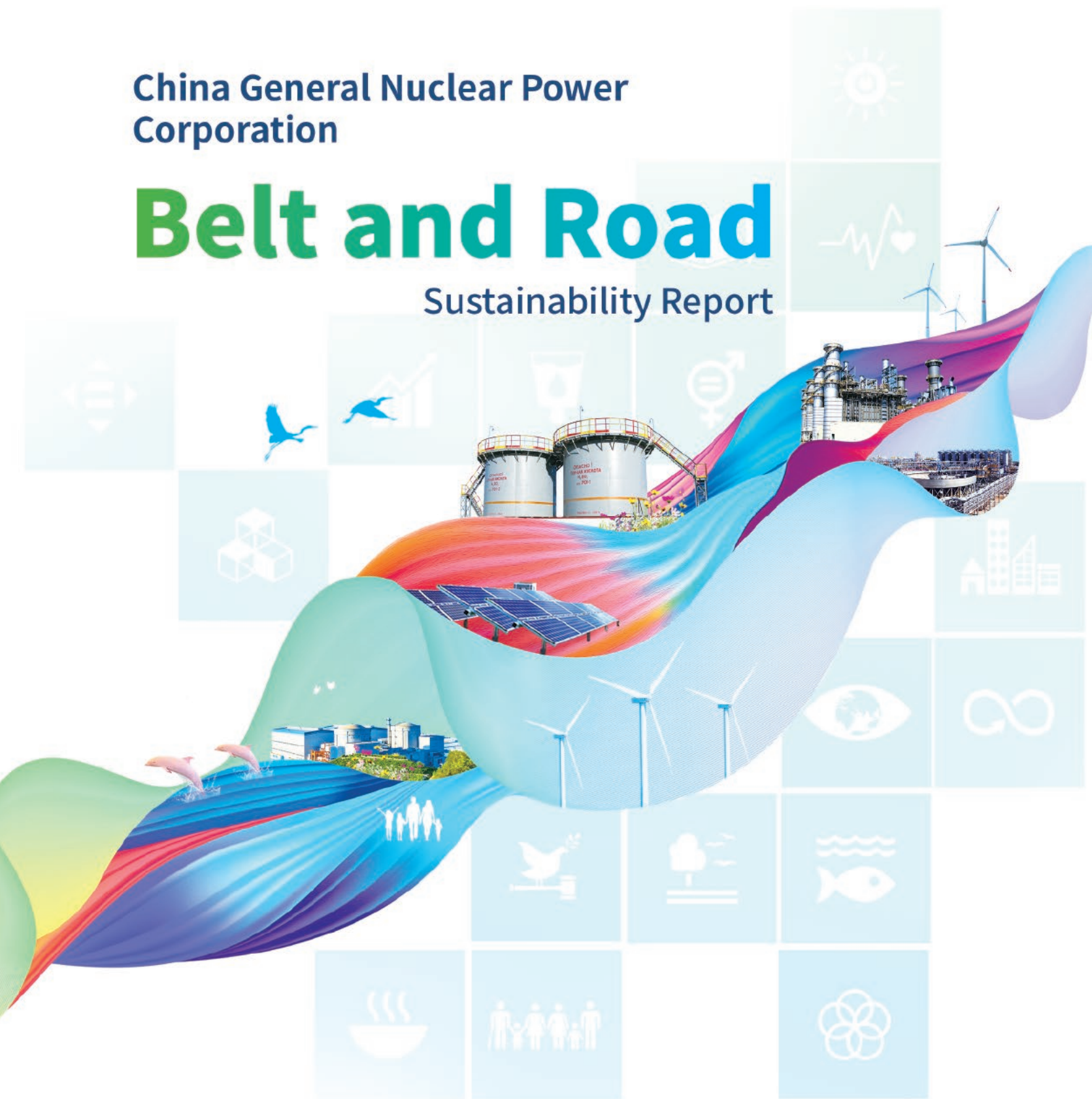


China General Nuclear Power Corporation

Belt and Road

Sustainability Report



About the Report

This is the first sustainability report on the Belt and Road Initiative issued by China General Nuclear Power Corporation ("CGN", "the Group", or "we" for short) overseas. Following the principles of objectivity, transparency and standardization, the report systematically discloses the practice and performance of CGN in fulfilling its economic, environmental and social responsibilities overseas so that you will know what we have been doing.

Reporting Scope

This Report covers the period from January 1, 2019 to December 31, 2020. Some contents herein dates back to some previous years for the sake of comparison, and some refer to later years from a forward-looking perspective. The Report covers overseas companies wholly-owned or majority-owned by CGN.

Preparation Principle

- Guidelines to the State-owned Enterprises Directly under the Central Government on Fulfilling Corporate Social Responsibilities issued by State-owned Assets Supervision and Administration Commission of the State Council (SASAC)
- GRI Sustainability Reporting Standards (GRI Standards) issued by Global Sustainability Standard Board (GSSB)
- Guidance on Social Responsibility (ISO 26000:2010) issued by International Organization for Standardization (ISO)
- GB/T 36001-2015 Guidance on Social Responsibility Reporting
- United Nations Sustainable Development Goals (SDGs)

Data Source

The data used in the report is from CGN's official documents, statistical reports or relevant public materials. The currency used here is RMB, unless otherwise specified. We promise that there are no false records, misleading statements or major omissions in the report.

Report Access

The Report is available in Chinese, English and French. You can download the electronic report from our website www.cgnpc.com.cn. If you have any questions or suggestions about the Report, you can contact the Department of Party Affairs and Culture & Publicity. Our address is, Floor 24, South Tower, CGN Building, No. 2002, Shennan Boulevard, Shenzhen, China.

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Message from the Chairman



The thriving Silk Road has contributed to global connectivity. From Zhang Qian's two journeys to the Western regions more than 2,000 years ago to Zheng He's seven voyages to the Western Seas more than 600 years ago, the ancient Silk Road spanning thousands of miles has promoted economic and cultural exchanges between China and the West and witnessed the stories of friendly cooperation between them. From idea to practice, the Belt and Road Initiative (BRI) has since 2013 revitalized the ancient Silk Road and opened a new chapter for both China and the world to pursue common prosperity and development.

As the world's leading clean energy producer and service provider, CGN seizes the great opportunities for development brought by the BRI, and actively practices the golden principle of "extensive consultation, joint contribution and shared benefits". We continue to expand clean energy business, integrate ourselves into the global energy system, and give full support to local communities, striving to benefit local communities with better clean energy in collaboration with all BRI partners.

Developing clean energy with closer cooperation

Climate change has become one of the world's most severe challenges, in addressing which the transition to clean energy plays the decisive role. Facing this global challenge, CGN is committed to playing an active part. By taking full advantage of our expertise, we actively participate in global energy governance, deepen international energy cooperation, strive to provide more clean energy and promote the transition to green energy in BRI partner countries/regions. Over the last 40 years of development, we have been supplying clean energy in 19 countries on 6 continents, including the UK, France and Belgium. In 2020, we achieved an on-grid power generation of 36.26 TWh overseas by using clean energy, equivalent to reducing carbon dioxide emissions by over 28.283 million tons, contributing to the response to global climate change.

Taking care of our beautiful home with ecological conservation as a priority

It is CGN's long-term value to uphold ecological conservation as a priority and pursue green and low-carbon development. We keep making use of natural energy in a sustainable way, to achieve harmonious coexistence with Nature. We strictly abide by the environmental protection laws and regulations of the BRI partner countries/regions, and our power plants have all been certified by ISO 14001 environmental management system and have reported zero irregular emissions or environmental pollution accidents. At the same time, we attach great importance to biodiversity conservation at project sites, and have established the four-step (avoidance, reduction, mitigation, and compensation) biodiversity management approach. We have also selected Brenig Wind Farm in the UK and EOLE de la Haute-Somme Wind Farm in France as pilot scheme to conduct natural capital assessments, so as to assess and manage the impacts on Nature in a scientific way and build a harmonious and beautiful world.

Ensuring stable and reliable operation while putting safety first

Safety is a prerequisite for energy development and transition. We always uphold the principle of "Safety First, Quality Foremost and Pursuing Excellence". We continuously improve the safety management system, develop high-quality projects, and constantly conduct operation and maintenance for power plants, making every effort to ensure the health and safety of employees and the stable operation of power plants. All overseas branches of CGN have been certified by the ISO 9001 quality management system and the ISO 45001 occupational health and safety management system. Many plants rank top locally in terms of operation and maintenance, providing safe, reliable and economical clean energy for regional economy.

Creating common prosperity and harmony together

The Chinese famous sociologist Fei Xiaotong once said, "Let's appreciate the beauty of our civilization and uphold the beauty of each civilization and the diversity of civilizations in the world so that the world will achieve great harmony." CGN respects and embraces the rich and colorful cultures in BRI partner countries/regions. We keep localized operation, and actively give back to communities, striving to benefit more local people. We support community development and bring advanced technologies, outstanding talents and stable funds to these places through the development of clean energy projects, so as to drive the growth of local energy industry chain and work with locals for mutual benefits. We keep employing local staffs and strengthening local management teams to promote local employment and talent training in the energy industry. We actively give back to local communities by setting up foundations, organizing charitable activities of various kinds, and supporting the development of education, sports and other undertakings. In the face of the outbreak of COVID-19, we actively supported partners and communities to fight the virus in the humanitarian spirit, and helped them get through the times of difficulty.

As an old Chinese saying goes: "People of similar interest do not consider the distance of seas and mountains as far", CGN will continue to uphold the mission of "developing clean energy to benefit mankind" and deepen international operations and cooperation to meet high standards, benefit the people and promote sustainability. Let's work together to create an energy community with a shared future and jointly develop the BRI that is peaceful, prosperous, open, innovative and culturally advanced.

Yang Changli
Chairman of CGN

About CGN

Company Profile

China General Nuclear Power Group (CGN) is headquartered in Shenzhen, Guangdong Province and controlled by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC). Committed to "developing clean energy to benefit mankind" and the working style of "strict compliance, prudent decision-making, detail-oriented principle and fact-based approach", CGN develops businesses in the fields of nuclear energy, nuclear fuel, new energy, non-power nuclear technology, digitization, tech-based environmental protection and industrial finance, etc. As the largest nuclear power operator in China and the third largest in the world, the Group has three listed companies in Hong Kong and two listed companies in China's mainland. The in-service installed capacity of clean power controlled by the Group exceeds 63 GW, including 28.25 GW from nuclear power and 35 GW from new energy.

The third largest nuclear power operator in the world

The largest nuclear power operator in China

In-service installed capacity of clean power

63.1546 GW

"6+1" industrial system

Nuclear energy

Focusing on the nuclear power business, CGN is committed to innovation-driven development and has independently developed a number of core products such as Hualong One, nuclear heating reactor NHR200-II, a nuclear fuel assembly (STEP series).

New energy

Targeting the domestic and foreign markets, CGN focuses on the high-quality development of renewable energy such as wind and solar power to help realize China's goals of peaking carbon dioxide emissions by 2030 and achieving carbon neutrality by 2060. Our business ranks among the top in China, and our international business covers 17 countries and regions around the world.

Nuclear fuel

Focusing on ensuring the development of nuclear energy, CGN strengthens the development of uranium resources overseas, and orderly develops the front- and back-end business of nuclear fuel.

Non-power nuclear technology

CGN promotes the comprehensive application of non-power nuclear technology, represented by the accelerator, in the fields of environmental protection, medical services, measurement and control, and materials modification. For instance, in the field of materials modification, we are the largest industrial electron accelerator manufacturer with the largest range of models, and the largest electron accelerator irradiation processing enterprise in China.

Digitization

Centering on the nuclear digital instrument & control (I&C) system, CGN is devoted to the highly-reliable medical application of non-nuclear technology and the application of digital and intelligent technologies. Our proprietary FirmSys has the leading performance in China and has been successfully applied in a variety of reactor types.

Investment and finance

CGN applies financial instruments such as funds, insurance and carbon trading to provide high-quality and low-cost capital, asset management and financial services for industries to boost their development.

Tech-based environmental protection

CGN is committed to water resources protection, hazardous waste treatment, agricultural biomass and other fields, and has developed such business and technologies as "Heqing" and "Herong".

CGN and the BRI

CGN gives full play to its advantages in the energy field to launch energy cooperation with BRI partner countries, with an aim to promote global energy development and benefit people in BRI partner countries with the development of clean energy and nuclear fuel.

CGN actively explores overseas markets and has business presence in six continents mainly undertaken by CGN Energy International Holdings Co., Ltd. (CGNEI) and CGNPC Uranium Resources Co., Ltd ("CGNPC-URC"). Our clean energy projects have initially formed three lines: one horizontal line and two vertical lines worldwide. The horizontal line, with Malaysia at the center, connects Bangladesh, Egypt, Pakistan and the United Arab Emirates; as to the two vertical lines, one with France at the center, runs from Europe to Africa, and the other with Brazil at the center connects North and South Americas.

Senegal

Malicounda Ground Photovoltaic Project: 22MW

Ireland

Douvan Wind Power Project:235.6MW

France

Fujin Onshore Wind Power Project: 80.05MW
 Windfall (Fujin II) Onshore Wind Power Project :125.35MW
 Alize Onshore Wind Power Project: 71.05MW
 Hermès Onshore Wind Power Project: 30.15MW
 Olympia Onshore Wind Power Project: 61.6MW
 Newco Distributed Solar Energy Project: 6.6MW

Namibia

Husab Solar green space and energy storage project:12MW (under construction)
 Uranium Mine Project: 1

UK

Clover Onshore Wind Power Project: 72.9MW
 Brenig Onshore Wind Power Project: 37.6MW

Belgium

Esperance Wind Power Project: 81.88MW

Netherlands

Forum Wind Power Project: 77MW

Egypt

Suez Gulf Gas-fired Power Project: 682.4MW
 Port Said Gas-fired Power Project: 682.4MW
 Sidi Kiri Gas-fired Power Project: 682.4MW

Sweden

North Pole Onshore Wind Power Project: 650MW
 Powerhouse Onshore Wind Power Project: 813.3MW

Kazakhstan

1 Fuel Assembly Plant(under construction)
 2 Uranium Mine Projects

Pakistan

Fauji Kabirwala Natural gas-fired Project:157MW

United Arab Emirates

Taweelah B Natural gas-fired Project:2000MW

Global projects majority-owned by CGNEI

47

Global projects majority-owned by CGN

4

Total consolidated installed capacity of clean energy

14.5597 GW

Asia

- 7 in-service projects, with an in-service installed capacity of 5.943 GW
- 1 in-service project, with an in-service installed capacity of 507 MW
- 1 in-service project, with an in-service installed capacity of 1.4 GW
- 1 in-service project, with an in-service installed capacity of 50 MW

Europe

- 12 in-service projects, with an in-service installed capacity of 2.3365 GW
- 1 in-service project, with an in-service installed capacity of 6.6 MW

Africa

- 3 in-service projects, with an in-service installed capacity of 2.0475 GW
- 1 in-service project, with an in-service installed capacity of 22 MW

South America

- 6 in-service projects, with an in-service installed capacity of 732 MW
- 2 in-service projects, with an in-service installed capacity of 450 MW

Oceania

- 1 in-service project, with an in-service installed capacity of 19.5 MW

- Biomass Project
- Photovoltaic project
- Wind Power Project
- Gas-fired Power Project
- Thermal power project

Brazil

Nova Olinda Solar Power Project: 292MW
 Lagoa do Barro Wind Power Project: 195MW
 Eurus Wind Power Project: 30MW
 Renascenca Wind Power Project: 30MW
 Lapa Solar Power Project: 158MW
 Cristalandia Wind Power Project:90MW
 Morrinhos Wind Power Project:180MW
 Santa Vitoria do Palmar Wind Power Project: 207MW
 Lagoa do Barro II Wind Power Project(under construction): 82.8MW

Republic of Korea

Yulchon I & Yulchon II CCPP, FC ~FC IV Gas-fired Power Project: 1549.1MW
 Daesan I Oil-fired Power Plant: 507MW
 Daesan Biomass Power Plant (under construction): 109MW

Bengal

Meghnaghat Natural gas-fired Project: 464MW
 Haripur Natural gas-fired Project: 378MW

Malaysia

Jimah Coal-fired Power Project: 1.4GW
 Telok Gong2 Natural gas-fired Project: 720MW
 KLPP Natural gas-fired Project: 675MW
 Malacca Natural gas-fired Project (under construction) :2242MW
 Kuala Ketil Solar Power Plant: 50MW

Australia

Mortons Lane Wind Power Project: 19.5MW
 1 Uranium Mine Project (prospecting stage)

* Note: The above data are as of February 2021. Unless otherwise specified, those listed are in-service projects.

Creation of comprehensive value

Investment

Financial capital

- Total overseas assets RMB **1388 billion**
- Proportion of overseas assets **17%**

Safety investment

- EHS training ratio of CGNEI **3.35%**
- Percentage higher than international EHS management level **2.5%**
- Emergency drills by overseas subsidiaries **139***

Natural capital

- Installed capacity of clean energy overseas **14.5597 GW**

Human capital

- Total number of overseas employees **3,648**
- Cumulative employees by localized recruitment of overseas projects **3,329**
- Investment in overseas employees training RMB **1.8516 million**

Social relations

- Total overseas charity donations RMB **9.3126* million**
- Total overseas tax RMB **1.042 billion**

Value

Natural Energy Powering Nature



An employee of Assac Wind Farm in southern France are maintaining the wind turbine.

Output

Dimension	Indicators	Stakeholders
Operation	Overseas operating income: RMB 20.3 billion	Shareholders and employees
	Group's operating revenue: RMB 110.70 billion	
	Percentage of overseas operating revenue: 18%	
Safety	Work-related deaths of overseas employees	Employees
	Accident rate of CGNEI per 200,000 work hours: 0.042	
	Accident rate of CGN Swakop Uranium per 200,000 work hours: 0.034	
Environment	On-grid power generation from clean energy of the Group: 263.112 TWh	All
	Overseas on-grid power generation from clean energy: 36.260 TWh	
	Overseas on-grid power generation from clean energy equivalent to reduction of 10.8781 million tons of standard coal	
	Overseas on-grid power generation from clean energy equivalent to reduction of 28.2830 million tons of carbon dioxide emissions	
Employee	Localized employment ratio: 91.26%	Employees
	Proportion of overseas female employees: 15.91*%	
	Training time per employee of the Group: 93 hours	
Community	16 overseas charitable projects	Communities
	3,124* local jobs	
	Overseas localized procurement expenditure: about RMB 2.489* billion	

* Note: The above data are based on the data of 2020, and data marked with * are from CGNEI and CGN Swakop Uranium. Euro, Ringgit, Namibian dollar, and Bangladesh taka were converted into RMB based on the annual average exchange rate in 2020.

Corporate Governance

A well-regulated governance structure and a board of directors that works are the foundation and guarantee for sound corporate governance. We have established a sound governance structure and mechanism to promote sustainable corporate development through scientific and effective decision-making.

Board governance

The Board of Directors of CGN has established scientific rules of procedure in strict accordance with laws and regulations such as the *Company Law of the People's Republic of China*. Under the Board, there are four specialized committees: Nomination Committee, Remuneration and Appraisal Committee, Audit & Risk Management Committee, and Strategy Committee, to help the Board make science-based, informed decisions.

Governance framework



Compliance management

CGN attaches great importance to compliance management and strictly abides by international treaties and conventions and laws, regulations and regulatory requirements of host countries in corporate governance, antitrust, anti-commercial bribery, anti-money laundering, import and export control, and personal data protection. We keep following the latest laws and regulations and update our practices accordingly to ensure compliance.

From 2019 to 2020, there were **0** violations of laws and regulations in CGN overseas companies.

Anti-trust actions

CGN follows the principle of market economy and strictly abides by the laws and regulations related to market transactions in host countries. Guided by the *CGN Administrative Standards for Due Diligence on Investment, Merger and Acquisition Activities*, we include it into due diligence to check whether the target company is involved in anti-trust actions or unfair competition, and regulate asset trading, tendering and bidding procedures. In market competition, we promise not to violate business ethics or undermine the competitive advantage of others.

Anti-corruption

Corruption is a widespread, deep-seated and multifaceted social problem. We work actively to have our anti-bribery management system certified, and have formulated a series of administrative policies and measures to guard against the risk of corruption in overseas business and ensure the stability of operation.

Better Management System

CGNEI introduced the anti-bribery management system in accordance with *ISO 37001:2016 Anti-bribery management system — Requirements with guidance for use*, and prepared and issued the *Anti-Bribery Management System Manual*. Anti-bribery requirements are strictly implemented. In August 2021, CGNEI passed the review of a professional institution and obtained the certification of *ISO 37001:2016 Anti-bribery management system*.

Risk identification

Focusing on the field of investment and M&As, CGNEI identified 77 integrity and compliance risks in 12 key steps in overseas investment and M&As, and issued the *List of Compliance Risks in the Whole Process of Overseas Investment and M&As*, to guard against risks in overseas investment and M&A projects. We prepared national risk analysis reports for such BRI partner countries such as the Republic of Korea, Malaysia and Namibia, covering such aspects as the political climate, laws and regulations, cultural environment, and religion. These reports serve as a compliance reference book for project development and operation in related countries.

The whistle-blowing procedures

We have issued the *Overseas Whistle-blowing and Investigation Regulations* to improve the process, basis and principles of investigation on overseas violations. A unified whistle-blowing mailbox and hotline are opened to ensure that the complaint and investigation are open and transparent. The investigation will fully comply with the laws and regulations of the host country, and fully respect local national conditions and the lawful rights of employees.

An honest and compliant culture

We have produced a promotional video on integrity and compliance, and advocated anti-corruption via multiple channels, to raise the recognition of foreign employees to CGN's corporate culture. We have issued the *Code of Conduct on Compliance*, requiring all employees to commit and sign for confirmation, and guide them to consciously practice the requirements.

Sustainability Management

We integrate the philosophy of sustainable development with our corporate strategies. Specifically, we practice sustainability management across functions and business links to enhance the Group's capability and competitiveness in sustainability, and improve the quality of corporate development, contributing to economic and social sustainability.

Opportunities

- As the world's major economies are all committed to responding more actively to climate change, renewable energy will play an increasingly important role in meeting the world's growing energy demand.
- China has announced to strive to peak the carbon dioxide emissions before 2030 and achieve carbon neutrality before 2060, which will effectively promote the energy mix transition.
- The flourishing emerging economies will continue to drive up global energy demand.
- The continuous expansion of middle-income population, the fast-growing digital economy, and the wide application of new technologies and new business models such as new energy vehicles and sharing economy, will push more and more end users to clean and low-carbon energy.

Challenges

- The COVID-19 pandemic poses severe challenges to the progress toward the 17 UN Sustainable Development Goals.
- COVID-19 heightens the importance of the security of energy and its industry chain and supply chain to governments across the globe, and hence reinforces the trend of energy localization.
- China has proposed to build an economic development pattern that takes domestic development as the mainstay, with domestic and international development reinforcing each other, which, alongside with the Belt and Road Initiative, and puts forward new demands for China's business overseas.

 Opportunities and challenges of sustainable development

 Our sustainability-embedded CSR philosophy

 Our response

Our mission

Develop clean energy to benefit mankind

Our vision

Become a world-class clean energy group

Facing the opportunities and challenges of global economic, social and energy development, we seize opportunities brought by the BRI, and actively participate in global energy transition. While continuing safe and efficient development of nuclear power, we comprehensively develop the non-nuclear clean energy business, striving to enlarge the access to safe, reliable, affordable and clean energy with diverse, large-scale and sustainable clean energy products and services, and thus contribute to global transition to green and low-carbon energy.

Contribution to UN SDGs

The United Nations 2030 Sustainable Development Goals (SDGs) outline a bright future of a sustainable world. Achieving this grand vision requires the joint efforts of all sectors of society. As a corporate citizen, we actively support the SDGs and focus on 13 of them as key areas of action.

Actively building a harmonious society

Promote green and low-carbon development



Kuala ketil photovoltaic project in Malaysia

Materiality Management

In order to make the reporting disclosure more targeted, we conducted a survey on overseas stakeholders following the material topic analysis process. We screened out key material topics over "importance to stakeholders" and "importance to CGN's sustainable development", and provided key disclosure of these topics in the report.



- | | | |
|------------------------------|---|----------------------------------|
| 1 Safety management | 2 Engineering quality and safety | 3 Occupational health and safety |
| 4 Win-win cooperation | 5 Technological innovation | 6 Environmental protection |
| 7 Tackling climate change | 8 Career development | 9 Community engagement |
| 10 Biodiversity protection | 11 Reducing costs and increasing efficiency | 12 Charity |
| 13 Transparent communication | 14 Promoting industry development | 15 Cultural integration |
| 16 Compliance management | 17 Protecting basic rights and interests of employees | 18 Sustainability management |



Stakeholder Engagement

We have established a regular communication mechanism to have equal and sincere communication with stakeholders via multiple channels and in various forms.

Stakeholders	Expectations and Demands	Communication Channels
Customers	<ul style="list-style-type: none"> Stable supply of clean energy Fair and transparent operational environment 	<ul style="list-style-type: none"> Customer satisfaction survey Social media communication Communication meetings
Communities	<ul style="list-style-type: none"> Engaging in community development Protecting local environment Ensuring community safety 	<ul style="list-style-type: none"> Open day Public consultation meeting Domestic and foreign media platforms
Employees	<ul style="list-style-type: none"> Guaranteeing compensation and benefits Protecting human rights Personal development Health and safety 	<ul style="list-style-type: none"> Workers' Congress Training activities Employee Symposium
Partners	<ul style="list-style-type: none"> Fair partnership Transparent procurement 	<ul style="list-style-type: none"> Communication activities Cooperation Forum
Shareholders	<ul style="list-style-type: none"> Good operational performance Creating value for society 	<ul style="list-style-type: none"> Annual report The general meeting of shareholders
Governmental bodies	<ul style="list-style-type: none"> Compliance operation Ensuring nuclear safety 	<ul style="list-style-type: none"> Regulatory review
Media/NGO	<ul style="list-style-type: none"> Transparent and open information Fulfilling social responsibility 	<ul style="list-style-type: none"> Open day Interview Domestic and foreign media platforms

Expanding communication channels

We release information on domestic and foreign media platforms, disclose the Group's progress on sustainable development, and actively communicate with all stakeholders. Our Chinese media platforms include CGN official website (www.cgnpc.com.cn), CGNEI official website (www.cgnei.com), Sina Weibo account ("CGN"), Tik Tok account (CGN), WeChat public account ("CGN" and "CGNEI"), WeChat video account ("CGN" "CGN New Energy") and our international media platforms include Facebook (CGN. FR/CGN clean energy), Twitter (vCGN France/CGN Group Official), Instagram (cgnfrance/CGN Clean Energy), youtube (CGN Newmedia).

In recent years, we have organized Open Day, China Week activities and offline tours of foreign journalists to give overseas stakeholders first-hand experience of our ideas and culture, listen to their voices, and continuously improve our sustainability management.

Report of the Virtual Open Day by Le Monde in France



CGN twitter account posts the news on the fifth Husab Marathon in Namibia



Spotlight1

Concerted Efforts in Fighting COVID-19

In 2020, the outbreak of COVID-19 swept across the globe, dealt a heavy blow to global economy, and seriously disrupted people's work and life. In the face of the COVID-19 pandemic rarely seen in history, we actively implemented the six requirements of the SASAC on the central state-owned enterprises regarding COVID-19 response in overseas units and projects, and the guiding principles of the meetings of the CGN leading group for COVID-19 response, formulated a scientific approach against the virus, making every effort to protect the health and safety of every employee and the stable supply of electricity. At the same time, we actively uphold the vision of a community with a shared future for mankind, practice the international humanitarian spirit, actively support partners and local communities in fighting the virus, and work together to tide over the difficulties.

Making coordinated and scientific plans to fight COVID-19

To cope with the complex epidemic situation, we set up the leading group for overseas COVID-19 response, headed by Chairman of CGN, to coordinate CGN's overseas epidemic control efforts. Based on local conditions, overseas subsidiaries took a law-based, scientific approach against the virus. Each set up an emergency prevention and control group under which were teams responsible for coordination, sourcing, production and operation, logistics, information reporting, and supervision, respectively. And each subsidiary has formulated its own plan on COVID-19 response to guide the groundwork scientifically.



The fitness camp of CGN Swakop Uranium

Taking actions to comprehensively control epidemic risks

Protecting the safety of every employee

In the face of COVID-19, we always put the health and safety of employees in the first place. We took a series of strict countermeasures as agreed on by employees to protect their health and safety.

Employee care



We cared about employees' mental health, and customized stress management and job skills improvement courses to help employees relieve stress, attracting more than 400 participants so far. CGN Swakop Uranium organized the Jerusalem dance relay activity and a one-month-long fitness camp to help employees regain their enthusiasm for life and their hope for the future.

Medical consultation



We were among the first companies to promote telemedicine internally, and some of our practices were promoted in other state-owned enterprises (SOE). CGN Swakop Uranium established the first standard infirmary run by a central SOE in Africa. The infirmary was equipped with non-invasive ventilators, oxygen generators as well as medicines to provide professional treatment to COVID-19 and other common diseases.

Vaccination



We promoted the vaccination of overseas employees to ensure that all people eligible for vaccination have access to it. CGN Swakop Uranium set up temporary vaccination points and formulated some measures to encourage employees and suppliers to be vaccinated.

Daily prevention and control



We provided employees with masks, protective goggles, protective suits and disinfectant. We disinfected commuter vehicles and offices every day as well as places where the virus were detected in a timely manner, to cut off virus transmission routes.

Insurance



We purchased commercial insurance for employees in accordance with local laws and regulations, including the special insurance against COVID-19 and the international SOS insurance, so as to provide protection for employees in case of emergencies.



An employee of CGN Brazil Energy gets the COVID-19 vaccine shot

Stable power supply

Since stable power supply is a key guarantee for combating the epidemic, we tried our best to ensure the safe and stable operation of each power plant, on the basis of ensuring the safety and health of employees, thus providing stable power for project sites to fight COVID-19.

Ensuring workplace safety

We imposed strict access control at overseas power stations, and worked to ensure the normal production and operation of power stations by taking various measures such as taking the body temperature of employees, workplace disinfection, ventilation and mandatory mask wearing.

Carrying out emergency drills

In different stages of the epidemic, our overseas subsidiaries simulated the scenes where suspected infections were detected at construction sites and cluster infections near power plants, and conducted a number of emergency drills to effectively improve the COVID-19 response.

Innovative application of technologies

During COVID-19, CGN Europe Energy (CGNEE) applied the intelligent analysis technology and model calculation and analysis for remote intervention with the core capabilities of operation and maintenance, protecting the power supply from the impact of the epidemic and ensuring the stable operation of wind turbines through flexible dispatch.

[Case]

Emergency drills on COVID-19 response launched to ensure the safety and stability of our projects

Since 2020, the COVID-19 situation overseas has become increasingly challenging. At the peak of construction, the gas project of Edra Power Holdings Sdn Bhd in Malacca had about 3,000 workers on site, and most of them lived in the company's dormitories. In order to protect their health and safety and prevent mass infection, the company carried out the emergency drill on COVID-19 response on February 27, 2020.

In the emergency drill, a worker pretended to have a fever and faint due to COVID-19 infection. According to the emergency response procedures, the drill team quickly coordinated with local doctors and transported the worker to the nearby hospital for examination, and the patient was then admitted to a designated hospital for treatment after being diagnosed with COVID-19.

This drill tested the effectiveness of the company's epidemic response, and the results showed that the company had sufficient emergency supplies and unimpeded channels for information communication. Edra Power Holdings shared the experience of the drill afterwards with other regional companies to help them improve anti-COVID measures.

Support local communities to fight COVID-19

In order to restore the prosperity of communities as soon as possible, we actively donated anti-epidemic materials to communities and local medical institutions and donated groceries to vulnerable groups, helping them overcome the difficulties.



"Our center needs 6,000 masks every day, not only for the frontline doctors, but also the critically ill patients. We are indebted to the CGN for sending the much-needed supplies."

— Professor Pierre Carey, head of Paris Emergency Center



Masks donated to AP-HP's Hôpital Universitaire Pitié-Salpêtrière

In March 2020

we donated 5,000 medical masks to AP-HP's Hôpital Universitaire Pitié-Salpêtrière (a hospital for COVID-19 patients). The famous French writer Hugo's saying "Rien n'est solitaire, tout est solidaire" was printed on the packages, conveying our care and support to the local people.

In July 2020

we donated RMB 980,000 to Tahya Misr Fund established by the Egyptian government for epidemic prevention and control.

In August 2020

we donated RMB 980,000 to the Relief and Welfare Fund of the Prime Minister of Bangladesh to support the epidemic prevention and control in the country.

In May 2020

2020, we donated FCFA 6.566 million (about RMB 80,000) to Malicounda municipal government of Senegal for purchasing 7.5 tons of rice and 4.8 tons of white sugar, which can sustain hundreds of poor families for at least one month.

we distributed food and other life necessities to 520 vulnerable households in Kuala Lumpur and Selangor in Malaysia.

we donated office supplies to police stations in Swakopmund, Arandis and Walvis Bay in Erongo Region of Namibia to alleviate the shortage of office supplies caused by the epidemic and help the Erongo regional government cope with the epidemic.

In December 2020

we donated groceries such as cooking oil, sugar, flour to 42 poor households in Swakopmund's shanty area to help them alleviate the pressure caused by the epidemic and bring them Christmas blessings.

Story

Helping the low-income group return to normal life



Edra Power Holdings distributes aid materials to needy families

Due to COVID-19, the Malaysian government issued a lockdown order that took effect on March 18, 2020, demanding non-essential businesses to remain closed and banning non-essential travels and cross-state movements. As the epidemic progresses, the government even extended the lockdown order three times. In this situation, the vast majority of the society's bottom 40%, i.e. the low-income group known as B40, were struggling to make ends meet. Many low-income families living on daily wages suddenly found their revenue stream drying up, with their bread-earners given a pay cut or even laid off.

In order to help vulnerable groups, Edra Power Holdings actively cooperated with Women of Will to help affected communities and families reduce their financial burden and return to normal life. From August 8 to 16, it organized two donations, respectively, of food and daily necessities, to 520 vulnerable households, including poor families, single-parent families and street vendors.

During the donations, the company strictly followed the standard operating procedures stipulated by the Malaysian government. All volunteers and beneficiaries wore masks and maintained a social distance. The beneficiaries were only allowed into the auditorium to receive the donations after having their temperature taken at the check-in office and disinfecting hands. Edra Power Holdings is going to provide business funds to 180 vulnerable women in Malaysia and try its best to help the country overcome difficulties.



My husband has just been reinstated. I also try to do business online to make some money. These aid materials can save us a lot of expenses.

— PSiti Aida, aid recipient

We are unemployed at home during the lockdown. My husband has no job and our children can't go to school, and I can't do business. The aid materials will sustain us for two to three months.

— Selvarani suramaniam, aid recipient



Story

Donating anti-epidemic materials to Namibian police stations and troops

On April 22, 2020, CGN Swakop Uranium donated masks, disinfectants, protective suits and other anti-epidemic materials to the Namibian police stations and troops.

Since the lockdown began, the police and national defense forces had set up checkpoints on main roads to strictly control traffic. Through the joint efforts of the police and the people, the epidemic was brought under control in Namibia. From April 5 on, there had been no confirmed cases for several consecutive days. CGN Swakop Uranium learned from stakeholders that the police and troops lacked anti-epidemic materials. Considering the current material shortage of law enforcement personnel, despite its own low inventory due to the logistics stagnation caused by COVID-19, the company donated 2,000 masks, 50 liters of disinfectant and 35 sets of protective suits to them at the critical period of time.



"The kindness of CGN Swakop Uranium guaranteed the safety of law enforcement personnel. In other words, it saved our lives."

— Mr. Andreas Nelumbu, police chief of Erongo Region



CGN Swakop Uranium donates anti-epidemic materials to local police stations and troops in Namibia

Spotlight2

Win-win cooperation between China and France

The friendly relationship between China and France dates back a long time. Since the establishment of diplomatic relations between the two countries in 1964, the two peoples have worked together for 56 years with rich results in the fields of economy, culture, and energy.

As a representative of China's nuclear power enterprises, CGN started cooperation with France on nuclear power in 1987. Based on the principles of mutual respect, mutual benefit and common development, CGN and its French partners have maintained extensive and in-depth exchanges and cooperation, contributing to the booming of global clean energy, the global energy transition, the response to global climate change, and to the China-France friendship.

Building a friendship based on energy cooperation

By 2020, we had worked with our French partners for more than 30 years. From nuclear power to new energy and technology import to cooperative R&D, behind the exchanges and the successful operation of projects lie our deepening partnership and the widening bridge of energy friendship between China and France.

1987

On August 7, 1987, CGN started the construction of the Daya Bay Nuclear Power Plant in cooperation with EDF and Framatome.

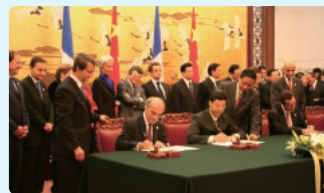
1994

On May 6, 1994, the Daya Bay Nuclear Power Plant was completed with the joint efforts of the two sides, marking the start of the large-scale commercial nuclear power station in Chinese mainland.



2007

On November 26, 2007, CGN, EDF and AREVA signed a cooperation agreement on the Taishan EPR Nuclear Power Project in the Great Hall of the People, witnessed by Hu Jintao and Sarkozy, then presidents of China and France.



2011

On June 29, 2011, CGN set up the French Branch of China Nuclear Power Engineering Co., Ltd. (CGN France) in Paris as a platform to expand its business in Europe.

2013

On April 24, 2013, the first power station of the 2 MW rooftop solar energy project contracted by CGN France was connected to the grid, marking the first step for CGN France to make inroads into the European new energy market.

2014

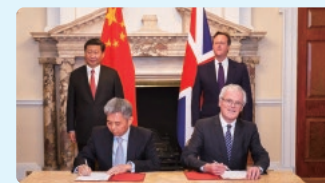
On March 26, 2014, CGN and EDF signed the Industrial Cooperation Program (ICP) on New Nuclear Power in the UK, witnessed by Chinese President Xi Jinping and then French President François Hollande.

On June 30, 2014, CGN Europe Energy ("CGNEE") was established in Paris, poised to enter the European new energy market.

2015

On February 18, 2015, CGNEE and Eolfi, a French new energy company, completed the 100% equity delivery of Fujin project.

On October 21, 2015, CGN and EDF signed a contract to jointly build three nuclear power projects in the UK, witnessed by Chinese President Xi Jinping and then British Prime Minister David Cameron.



On November 18, 2015 (French time), CGNEE signed a solar energy cooperation agreement with France's INOVIA CONCEPT DEVELOPMENT (ICD) in Paris, marking CGNEE's first step into the French solar energy industry.



On December 4, 2015 (French time), CGNEE, EDFEN and InnoSun signed a tripartite memorandum of cooperation at Le Bourget Exhibition Centre, Paris, to jointly invest in, develop, construct and operate the 500 MW clean energy power station project in Namibia.



2016

On July 22, 2016, the consortium formed by CGNEE and the French partner Eolf won the bid for the Groix project in Brittany near the Atlantic.

2017

On February 27, 2017, China Nuclear Power Engineering Co., Ltd. and EDF officially signed the FA3 Project Commissioning Service Contract.

On October 31, 2017, CGNEE and France's VOL-V signed an equity transfer agreement in Paris and acquired 100% equity of the latter's Alize onshore wind power project, with an installed capacity of 70.8 MW.

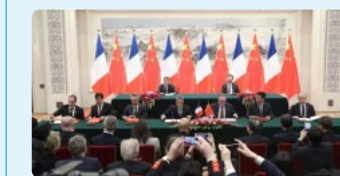


2018

On January 9, 2018, Chinese President Xi Jinping and French President Emmanuel Macron jointly unveiled the Unit 1 of Taishan Nuclear Power Plant as the first EPR reactor in the world.



On January 9, 2018, CGN and the French Alternative Energies and Atomic Energy Commission (CEA) signed a cooperation agreement on nuclear R&D to deepen cooperation in nuclear reactor technology and advanced fuel.



On August 22, 2018, the French Ministry of Energy announced that CGNEE won the bid for the French BlueBerry ground solar power plant project.

2018

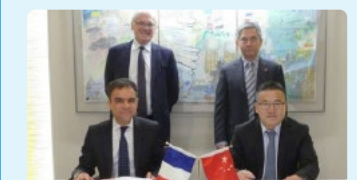
On November 6, 2018, a subsidiary of CGN signed project cooperation agreements with Framatome to further cooperation in industry, trade, technology, and talents.

On December 14, 2018, CGN and EDF held a press conference to announce the Unit 1 of Taishan Nuclear Power Plant as the world's first EPR third-generation nuclear power unit ready for commercial operation.



2019

On March 26, 2019 (French time) in Paris, CGN and EDF signed a memorandum of understanding (MOU) on deepening cooperation, attended and witnessed by He Yu, then Chairman of CGN, and Jean-Bernard Lévy, Chairman and CEO of EDF.



On April 3, 2019 (French time), CGN Dasheng Electron Accelerator Technology Co., Ltd., a wholly-owned subsidiary of CGN Nuclear Technology Development Co., Ltd., signed an MOU with France's AERIAL to jointly promote the development of electron beam irradiation in agriculture and the implementation of related projects in China.



Key projects

Newco distributed solar power project

On November 18, 2015, CGNEE signed a solar energy cooperation agreement with France's INOVIA CONCEPT DEVELOPMENT (ICD) in Paris, France, marking CGNEE's first step into the French solar energy industry. With a total installed capacity of 6.6 MW, the Newco rooftop photovoltaic project is distributed in 66 sites in central and southern France. The project team worked with local farmers to develop solar energy on the roofs of farm barns, which has effectively promoted resource conservation and sharing, and achieve sustainable harmony between business, farmers and Nature. It represents a way of developing renewable energy vigorously promoted by the French government.

Since put into commercial operation in 2018, the project team has made every effort to do a good job in managing assets, operation and maintenance and contractors with the goal of ensuring work safety. Various on-site inspection, maintenance and cleaning tasks are reasonably arranged and over 320 on-site defect treatments were carried out each year; as a result, the equipment availability rate was up year by year. The on-grid power generation has exceeded the P50 target every year since the project was put into commercial operation. At the same time, the project team strictly implements the EHS rules and procedures to control on-site risks with zero safety incidents in the past three years.

Fujin onshore wind power project

On February 18, 2015, CGNEE and Eolfi, a French new energy company, completed the project delivery and acquired the Fujin onshore wind power project to officially entered the French new-energy market. The Fujin project is the first new energy project operated and maintained independently by CGN in Europe, with an installed capacity of 80.05 MW, and can supply clean energy to 104,000 households.

By the end of 2020, CGN held equity in

6 new energy projects



5 onshore wind power projects



1 distributed photovoltaic project in France



With a cumulative installed capacity of

374.8 MW



Fujin onshore wind power project



Newco distributed solar power project

Sharing development benefits

While working with French partners, CGN has always been working to develop clean energy and benefit local community at the same time, so as to realize sustainable development of both CGN and the local community.

Promoting local employment

We have formulated the international talents development strategy and tried to recruit local employees as many as possible during the construction and operation stages. We keep improving the training system to grow together with employees.

In CGNEE

80.60 %
local employees

59.10 %
percentage of local employees
in the management

100 %
localization of French project
operation teams

Driving the development of related industries

We actively cooperate with local qualified suppliers and source engineering materials, engineering equipment, office supplies, small-scale construction, cargo transportation and consulting services from them. We launched the e-commerce procurement platform (ECP) in December 2019 to ensure the fairness, openness and transparency of the procurement process.

188

procurement contracts completed by CGNEE in Europe

worth more than
5.6 million
EUR



[Case]

CGN establishes the European Training and Certification Center

On March 26, 2020, the CGN Training and Certification Center was set up in Paris, France. The center will cooperate with Highfield Qualifications, one of the top five certification bodies in the UK, to jointly build a global training and certification platform. Highfield Qualifications will support and supervise its course development, lecturer training and authorize certification. In addition, the qualification and examination office will supervise, audit and evaluate the in-person courses, online learning, examinations, and international certification to ensure that the training system and quality meet British and EU standards. The center has established a relatively complete training and authorization system in the fields of occupational health, safety and environment, wind & solar energy engineering and operation and maintenance, which will facilitate the cultivation of Chinese and French talents in the renewable energy field.

Integrating into local community

With community support we can go further. We actively communicate with local communities on media platforms such as Facebook, Twitter, Instagram and YouTube and via various offline activities to promote cultural exchange and integration.



"In recent years, French people have become increasingly enthusiastic about learning Chinese. The CGN-sponsored Chinese Character Festival in France has greatly promoted the cultural exchanges between China and France."

— Yang Jin, education counselor of the Chinese Embassy in France

"We offer Chinese-language courses for students. The Chinese New Year is an important festival in our school. A big thank-you to CGNEE for donating the Chinese calligraphy kits, Chinese paper cuttings and Spring Festival decorations. We hope to celebrate the beautiful Chinese New Year in our school every year in the future!"

— Cédric Page, headmaster of IFEA



[Case]

"Chinese Character Festival" held in France to show the beauty of Chinese characters

On September 13, 2019 (French time), CGN's China Week "Chinese Character Festival" was held at the government site of the 13th District of Paris, attracting more than 1,000 French people who were joined by Yang Jin, Education Counsellor of the Chinese Embassy in France, and Buon Tan, president of the France-China Friendship Group of the French National Assembly.

The CGN booth was crowded by French visitors lining up to try brush writing and Chinese paper cutting. A French mother with two children said, "I didn't expect my children to have the patience to write all the characters. I'll let them learn Chinese in the future." The award ceremony of the 2019 Chinese Bridge Competition in France was also held on that day at the closing ceremony of the Chinese Character Festival, and CGN sponsored the prizes for 49 winners.

[Case]

CGNEE celebrates the Chinese New Year with French pupils

On the eve of the Spring Festival in 2021, representatives of Chinese and French employees of CGNEE visited IFEA, an international school in Greater Paris, and celebrated the Chinese New Year with teachers and students while strictly abiding by the COVID-19 policies. This was the first celebration of the Chinese New Year held in IFEA.

The employees of CGNEE brought Chinese calligraphy writing kits, Chinese paper cuttings, Chinese Fu characters, Spring Festival couplets and other festival decorations to the students, and jointly held a lively and fun Chinese New Year activity with the teachers. In particular, they showed the students how to write Chinese calligraphy, which greatly interested the students who never learned it before. Seeing that, the Chinese-language teachers decided to add Chinese calligraphy to the future curriculum. Finally, the Chinese and French employees of CGNEE sang songs together with the teachers and students to celebrate the Chinese New Year.



Participants learn brush writing at the Chinese Character Festival



Employees of CGNEE and IFEA pupils celebrate the Chinese Spring Festival



Response to Climate Change



We are committed to developing clean energy to contribute to the global transition to low-carbon energy and the reduction of greenhouse gas (GHG) emissions.



Committed to "developing clean energy to benefit mankind," we promote the development of clean energy projects under the BRI, and reduce the GHG emissions generated by our operation, striving to provide safer, reliable, clean and economical energy for the society while working with stakeholders to tackle climate change.

Contributions to SDGs



Management of climate change impacts

Climate change has become a severe challenge for mankind. As a clean energy company, we closely follow and assess the risks and opportunities associated with climate change, actively respond to it, and develop clean energy in BRI partner countries, to contribute more proposals to the global energy transition and work with stakeholders in climate governance.

Risks and opportunities

Risks

- Extreme weather and emergencies caused by climate change damage the environment and impact the safety, reliability and stability of the energy mix.
- International negotiations over climate change and biodiversity have been postponed due to COVID-19, and the progress on global climate and environmental governance has been stalled on the whole.

Opportunities

- All parties agreed to adopt the Paris Agreement at the United Nations Climate Change Conference in 2018, bringing the global action to curb climate warming into a new stage.
- In recent years, the accelerating global energy transition has established the development trend of clean energy and electrification, and put forward new requirements for power companies.
- China takes ecological cooperation as key part of to the BRI and has launched a series of green initiatives covering green infrastructure, green energy, green transportation and green finance.
- Many countries have stressed "green and low-carbon" in their national economic recovery plan. For example, the European Commission unveiled plans for a 750 billion euro recovery fund to support low-carbon industries such as renewable energy, new energy vehicles, energy-saving transformation of buildings and hydrogen energy, so as to achieve carbon neutrality by 2050.

Vision and actions

With the vision of "becoming a world-class clean energy group," we are committed to long-term operation and development in each project country, and continue to enhance the development, construction and operation of clean and renewable energy power projects such as wind power and solar power generation overseas.

We hope to support social and economic development of each project country or region with clean, safe and reliable power supply in the long term, and make sustainable contributions to the restructuring of the electricity industry, GHG emissions reduction and local environmental improvement.

Our latest progress

Production of clean energy overseas in 2020 (outside China):

Type of energy	Annual On-grid power generation (GWh)	Annual On-grid power generation (GWh)	Reduced emissions of carbon dioxide equivalent (ton)
Photovoltaic energy	786.31	235,892	613,319
Wind power	8,155.42	2,446,625	6,361,224
Natural gas-fired	27,318.56	8,195,569	21,308,478
Total	36,260.29	10,878,085	28,283,021

* The standard coal consumption for power generation is estimated based on the industry's average heat consumption, i.e. 300g/kWh. The carbon dioxide emission of standard coal is converted by the carbon content of standard coal, i.e. 2.6t/tce.



Development of clean energy

The global energy sector is becoming more and more diversified, cleaner and more low-carbon. Building a "clean, low-carbon, safe and efficient" modern energy mix is an important cornerstone for global sustainable development. By the end of 2020, our clean energy business was present in Africa, Asia, Europe and South America. We hope to develop the clean energy business through the "going global" strategy, so as to bring cleaner, low-carbon and more sustainable energy to every project country/region, and contribute to reducing carbon emissions and coping with global climate change.

[Case]

The Kuala Ketil Solar Farm in Malaysia

With a total installed capacity of 50 MW, the Kuala Ketil Solar Farm, as one of the largest single PV projects in Malaysia, was officially put into operation on February 25, 2019. It aims to provide clean energy for industrial and agricultural activities in Kuala Ketil and bring economic benefits to the local community. It is expected to generate 78.4 GWh of electricity per year, supplying to an average of 30,000 households per month, which is equivalent to reduction of about 54,000 tons of carbon emissions per year.



The Kuala Ketil Solar Farm

[Case]

The Daesan Biomass Power Plant in the Republic of Korea

With a total installed capacity of 109 MW, the Daesan Biomass Power Plant in the Republic of Korea is designed to use high-quality sawdust particles as fuel, and apply emerging and efficient environmentally friendly technology to treat the exhaust generated by operation, so as to produce high-quality, efficient and clean electricity. After completion, it is expected to generate 860 GWh of electricity annually, which can meet the electricity need of 162,000 households and reduce carbon emissions by about 400,000 tons every year.



The Daesan Biomass Power Plant

[Case]

The Arctic wind power project in Sweden

The Arctic project is located in the Pitea region in northern Sweden (close to the Arctic Circle), a large wind power development base designated by the Swedish government. With a total installed capacity of 650 MW, it is the largest in-service onshore wind power project completed in one time in European history. The construction started in 2018 and has been completed. The project is expected to generate 1.9 TWh each year, which can meet the electricity need of nearly 400,000 households, equivalent to reducing carbon emissions by about 1.89 million tons each year.



The Arctic wind power project in Sweden

[Case]

Nova Olinda Photovoltaic Plant, the third largest solar plant in Brazil

In 2019, we successively completed the equity delivery of two new energy projects in Brazil, namely, Gamma and Atlantic, marking our first step into the South American market, and later the CGN Brazil Energy Holding Co., Ltd. was inaugurated. We vigorously develop clean energy and strive to create economic, social and environmental benefits for the local community at the same time. The Nova Olinda project in northeast Brazil is the third largest PV plant in the country with an installed capacity of 292 MW. The power plant was officially put into commercial operation in 2017, and generates about 500 GWh per year, sufficient to meet the electricity need of nearly 250,000 households, equivalent to reducing carbon emissions by about 290,000 tons per year.



The Nova Olinda solar power project in Brazil



"Today, I am even more surprised to learn that China has very advanced technologies which are applied to produce clean energy and promote sustainable development."

— Aude Telot, a freshman in the Department of European and International Culture at the University of Versailles Saint-Quentin-en-Yvelines (UVSQ)

"I am proud to work in the field of renewable energy. I firmly believe that this represents the future of mankind. And I am also proud to pass this concept on to my children!"

— Gaëtan Girard, head of the French operation and maintenance team



CGNBE awarded the Gold medal of Brazil's GHG Protocol for Project Accounting in 2019

* Note: Brazil's GHG Protocol for Project Accounting was launched in May 2008. It aims to build the GHG accounting capacity and system at the organizational level and promote voluntary GHG management.

Improvement of energy efficiency

Improving energy efficiency is important for power enterprises to produce more efficient and cleaner power. We have reduced the energy consumption of power plant operation by optimizing the energy management system, cutting heat consumption, and replacing energy-intensive equipment. We also advocate green office across subsidiaries to improve energy efficiency and reduce carbon emissions.



Lean management

We conduct tailored analysis of the lean management policy for each plant. Evaluation systems that are comprehensive yet mutually independent to each other are built based on their different locations, business environments, unit operation situations and stage of life cycle, so as to establish the optimal operation strategy.



Heat consumption reduction

By strengthening the benchmarking of heat consumption of gas-fired power plants, we have formulated and implemented heat consumption reduction plans in key power plants, and tracked the progress monthly, so as to reduce heat consumption of three key power plants with aging units. In 2020, Suez Gulf and Port Said plants in Egypt reduced heat consumption by about 101 kJ/kWh and 96 kJ/kWh, respectively by optimizing oxygen content parameters of deaerators.



Equipment upgrade

Edra Power Plant has reduced power consumption by upgrading equipment including cooling water pumps, boiler feed pumps and condensate pumps, and installing variable speed drives. The power plants in South Korea saved about 1,253 MWh of electricity by installing high-performance transformers, LED lamps, solar panels, and air conditioners. Daesan Power Plant saved about 161,358 MWh of electricity throughout the year by installing motor inverters and high-performance motors.



Green office

Edra Power Plant advocates green office by upgrading equipment needed to reduce power consumption. Edra Power Holdings has issued a green office initiative to save power in the factory by properly installing the lighting system and using energy-saving LED lamps. The company also promotes a paper-free office to reduce the consumption of paper at workplace. Since 2013, it has planted 5,174 trees at its power plant in Bangladesh to reduce its carbon footprint. CGN Brazil Energy calls on employees to save printing consumables and the user login is required for the use of printers, which greatly reduces the waste of paper.





Environmental Protection

Our goals

We are committed to promoting harmonious coexistence between our clean energy projects and the surrounding natural environment to realize environmental sustainability.

Our actions

By identifying the impacts of our decisions and activities on the surrounding environment and associated risks in business operations, we have formulated targeted environmental protection measures, and continue to improve the environmental management system, so as to reduce environmental impacts and protect biodiversity.

Contributions to SDGs



Environmental management

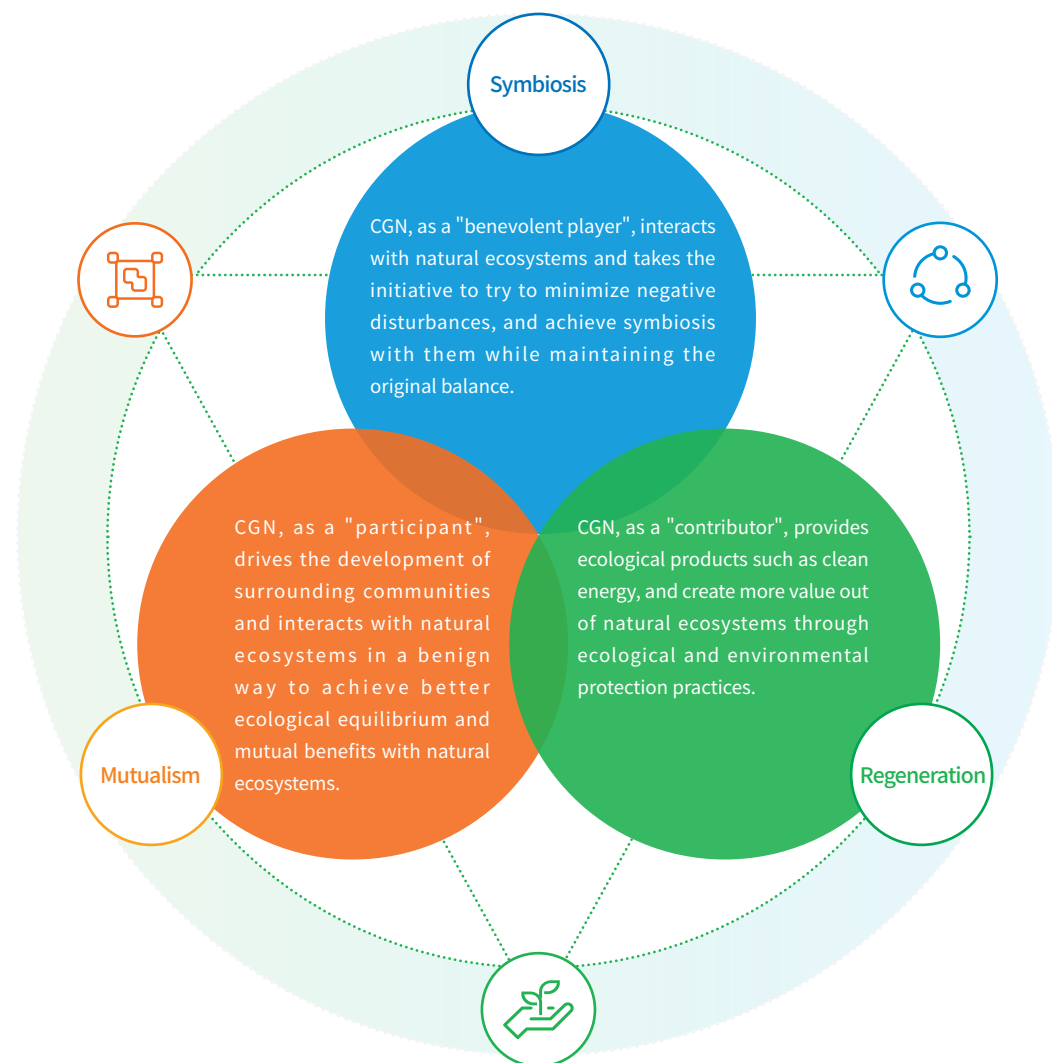
We continue to improve the project-specific environmental protection management system and align environmental management with production management to meet safety, economic and environmental goals at the same time.

Standardized management

All power plants of CGN have been certified by the ISO 14001 environmental management system. We have established a sound environmental management system at the headquarters and all power plants in operation. In the future, we will improve the energy conservation and ecological and environmental protection management system, and promote the standardized and IT-enabled environmental management across member companies.

Management philosophy

We respect, make good use of and give back to Nature. We put forward the environmental management philosophy of "symbiosis, mutualism and regeneration" to protect the local environment with nature-based solutions.



Reduction of environmental impacts

We strictly abide by environmental protection laws and regulations of the host countries/regions, carry out systematic and scientific feasibility studies in an orderly manner before the project is implemented, formulate special plans and actions against potential environmental risks during the project operation, timely track and evaluate environmental compliance, and make every effort to promote green operation, thus minimizing environmental impacts of project operations.

0
unlawful emission or environmental pollution accident occurred

Pollution control

We attach great importance to the environmental performance of all projects and actively control pollutants that may be generated by project construction and operation.

- Waste gas management**
 - CGN Swakop Uranium has established an air-quality detection and dust monitoring system around the Husab Mine, and has strictly enforced dust control measures in the process of mining, hydrometallurgy and transportation.
- Solid waste management**
 - CGN's power plants follow the administrative regulations of their respective host country/region, and properly package, label and store the solid waste separately in the qualified waste storage room, and hand it over regularly to waste treatment companies approved by the environmental authority for disposal. The Husab Mine of CGN Swakop Uranium has established strict waste sorting and treatment rules to dispose of radioactive waste in a proper way.
- Water resources management**
 - In order to reduce the environmental impact of wastewater discharged, the UK Brenig project team and environmental specialists set up sewage purifiers properly in the project area and divert wastewater through channels to protect sewage purifiers from the obstruction of wind turbine bases. In order to minimize wastewater discharge, the Daesan Biomass Power Plant in Korea uses air-cooling towers, and recycles the wastewater after treatment.

Continuous monitoring

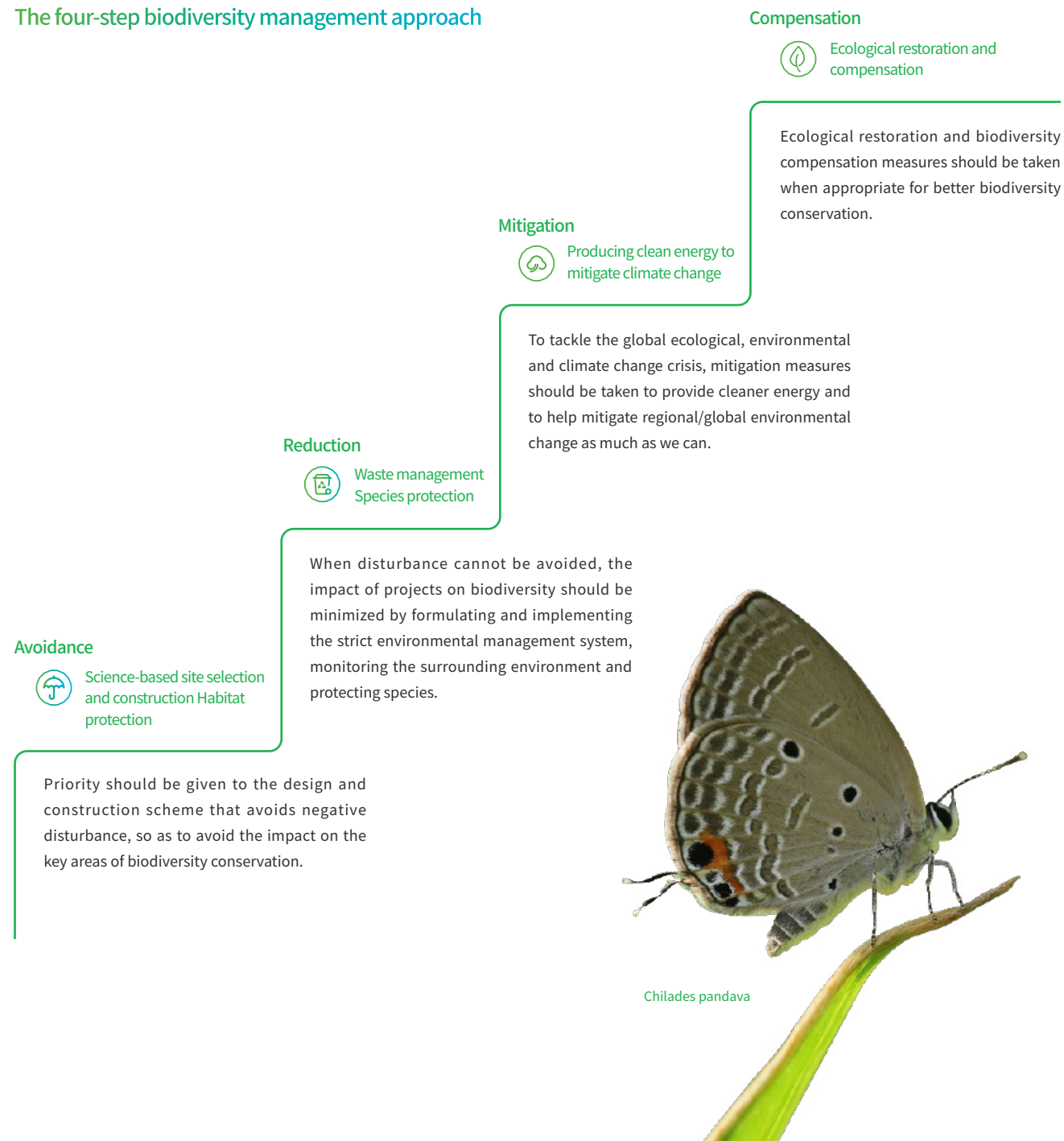
We have formulated the environmental monitoring plan, regularly measure surrounding environmental parameters such as ambient air quality, noise level, surface water environmental quality, and seawater quality, and compare the results with the environmental baseline and compliance standards to evaluate the environmental performance and promote green operations. The monitoring results over these years show that the environmental quality around our project sites has met the standards, and no abnormality is detected.

Biodiversity conservation

While providing clean energy for mankind, we pay close attention to biodiversity conservation around our project sites. CGN has incorporated biodiversity conservation into the corporate development strategy and established the four-step (avoidance, reduction, mitigation, and compensation) biodiversity conservation approach covering every stage of the project life-cycle. We are committed to integrating our operation with biodiversity conservation to minimize any direct or indirect negative impact on biodiversity.

Biodiversity conservation management

The four-step biodiversity management approach



Biodiversity conservation actions

Putting our biodiversity conservation strategy into action, we are actively seeking to work with external organizations, including the International Union for Conservation of Nature (IUCN), UN Environment Programme World Conservation Monitoring Centre (UNEPWCMC), OREE and Natural Capital Coalition, to minimize the impact of plant operations on surrounding species.

[Case]

Welwitschia mirabilis that can survive for thousands of years

Husab Uranium Mine in Namibia attaches great importance to ecological conservation. According to the original construction plan of the mine's permanent water supply pipeline project, 100 *welwitschia mirabilis* of more than 1,000 years old on average need to be transplanted. In order to minimize the impact on the rare plant, we optimized the route for many times and transplanted only 3 *welwitschia mirabilis* trees in the end.

* Note: *Welwitschia mirabilis* is a rare tropical plant that can survive for thousands of years. It is only found in the desert along the southwest coast of Africa and is the national flower of Namibia.



At first, we were all surprised by the importance CGN attached to environmental protection in Husab. From the early stage of project construction, special surveys were carried out, and the site layout adjusted to protect the environment in biodiversity sensitive areas, and precious animals and plants were under special protection. After construction began, we tried every means to reduce the environmental impact, continued to carry out environmental testing, and released the results to the public. Now, protecting the environment has become a habit shared by every one of us.

— Fanuel Mbambi, an employee of CGN's Husab Uranium Mine



[Case]

Natural capital assessment of EOLE de la Haute-Somme Wind Farm in France

EOLE de la Haute-Somme Wind Farm, north of Paris, is located on a vast limestone plateau in the hills of the Vermandois, Hauts-de-France. Built in 2009, the wind farm started a trial operation in 2010. It initially was operated as two independent wind farms which were combined into one in 2015 and was acquired by CGN Europe Energy in 2018.

Surrounding environment and ecosystem

The comprehensive analysis of the surrounding environment and ecosystem before and after project construction demonstrated that the wind farm project is part of a perimeter already very strongly disturbed by intensive agriculture. Biological communities have been already in a very significant state of degradation and disruption before the project. The impacts of the wind farm project would therefore be minimal compared to the pre-existing disturbances.

Measure our footprints on nature

To identify impacts and dependencies on the ecological environment of the wind farm from the start of construction to the present, and to provide suggestions on how we can better manage related risks and opportunities, we launched the natural capital assessment within a perimeter of 10 km around the site where the wind farm is located.

This natural capital assessment adopts the methods of field investigation and literature research, and makes analysis based on a thorough review of project information and species monitoring reports, the environmental impact assessment report before project implementation as well as the data provided by the Haute-Somme Wind Farm. Affected by the COVID-19 pandemic in 2020, on-site visits and stakeholder interviews were limited. One on-site visit was conducted for this assessment.



Saulzet wind farm, Fujin project, France

Dependencies of EOLE de la Haute-Somme Wind Farm on natural capital

Climate regulation

- The wind farm requires continuous wind resources, and climatic stability is a key factor to ensure stable operation and sustainable development.

Resource utilization

- The use of a variety of materials implies that the operation of wind farms rely on trees and fossil and non-fossil natural resources.

Utilization of freshwater resources

- A small amount of freshwater was used by employees and as cooling water for wind turbines.

Land occupation

- The wind farm occupies land resources temporarily or permanently during the construction period, as well as during the operation period.

Impacts of EOLE de la Haute-Somme Wind Farm on natural capital

Ex-situ impact

- Resource extraction, equipment production and transportation imply the impacts on the ecosystem.
- The wastes generated during the production will cause pollution to the surrounding environment.

Temporary in-situ impacts

- Construction noise and exhaust (e.g. automobile exhaust and road dust).

Permanent in-situ impacts

- The noise of a wind turbine produced by friction between the blades and the air (The sound level of wind turbines is quiet and adjustable, so the impact is limited).
- The electromagnetic radiation around the booster stations and transmission lines in the wind farm.
- Movement of the surrounding air caused by the operation of the wind turbine.
- Impact of artificial ground hardening on biodiversity within the wind farm.

Our actions to protect nature

In 2017, we commissioned the research firm Tauw France to carry out monitoring of birds and bats to evaluate the real impacts of the wind turbines on wildlife (birds and bats), guaranteeing that this energy sector is integrated into the environment either by optimizing the operation of the wind turbines or by setting up relevant compensation measures.

We revised the bird and bat monitoring protocol in 2019 to comply with the *Protocol for the Environmental Monitoring of Onshore Wind Farms* published in March 2018 and the regulation on environmental monitoring of wind farms in France. Between May and October 2019, Tauw France installed two recorders on the two wind turbines located near an afforestation area to know whether the bats passage at the height of the wind turbine blades.

Outlook 2030

According to the natural capital assessment results, the EOLE de la Haute-Somme Wind Farm will take corresponding measures to improve biodiversity.

Establish a regular monitoring mechanism for species such as birds and bats, and continue to track and evaluate the impact of wind turbines on biodiversity.

Take biodiversity compensation measures to protect the vegetation (rare grasslands and woodlands) and animals (birds and bats).

Carry out educational activities to explain results of natural capital assessment to multi-parties; encourages stakeholders to engage in biodiversity conservation.



Safe Operation



Our goals

We are committed to protecting the safety and health of employees and the stable operation of power plants by improving the safety management system and capabilities.

Our actions

We adhere to basic principle of "Safety First, Quality Foremost, Pursuing Excellence", we keep improving the safety management system, launch actions regularly to improve employees' safety awareness and skills, and strive to build high-quality engineering projects. We also conduct special plant maintenance on a regular basis, and make every effort to protect the health and safety of employees as well as the stable operation of power plants.

Contributions to SDGs



Safety management

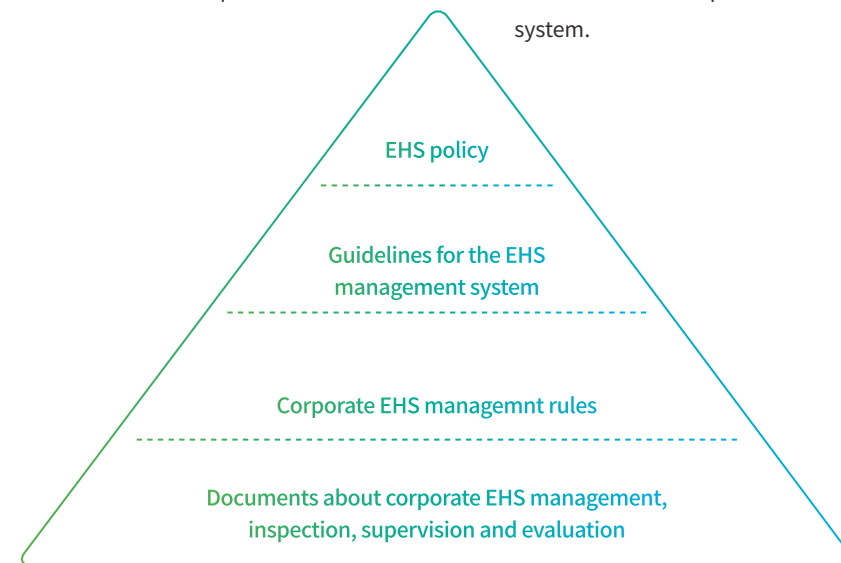
We adhere to basic principle of "Safety First, Quality Foremost, Pursuing Excellence". We constantly improve the EHS management system, and organize activities regularly to improve employees' safety awareness and capacity, so as to ensure the safe and stable operation of all power plants (projects).

Safety management organization

We have established a safety management organization covering three levels: the headquarters, regional companies and power plants (or projects). The headquarters has the EHS Management Committee, which, head by CGN's president, meets every quarter to hear the reports by regional companies and power plants on work safety issues. Each regional company, as required by the headquarters, has a Chief Safety Officer (CSO), which must be trained and authorized by the headquarters before taking office, and subject to regular performance assessment from the headquarters.

Safety management system

We have established a comprehensive EHS management system. Regional companies have established their respective safety management manuals and safety management policies in light of their own reality and based on the CGN guidelines for EHS management. The headquarters audits the EHS management system annually to evaluate the effect of safety management at regional companies. Our overseas branches have all been certified by the ISO 14001 environmental management system and the ISO 45001 occupational health and safety management system.



2019-2020:
0
death of employees at our overseas subsidiaries

0.042
accident rate of CGNEI's per 200,000 working hours in 2020

0.034
accident rate of CGN Swakop Uranium's per 200,000 working hours in 2020

Safety culture

To enable overseas managers and ordinary employees to do their best to eliminate potential safety hazards and quickly understand and master CGN's safety culture, we have launched the Global Safety Month and the Global EHS Workshop since 2018 for our overseas subsidiaries and projects.

[Case]

The third Global EHS Workshop

On November 23, 2020, the Global EHS Workshop under the theme of "strengthening implementation by closed-loop management" was opened online amid the COVID-19 pandemic.

The workshop was for key EHS management of overseas companies, and invited EHS experts from British Standard Institute (BSI) and the Institution of Occupational Safety and Health (IOSH) in the UK to give comments. For four days, the participants from several countries around the world, with a time difference of over 11 hours at most between them, spent two hours a day discussing such topics as "safety leadership", "identification and elimination of potential hazards", "EHS training and capacity building" and "mountain fire protection for PV power plants." They also shared good practices, reflected on the existing shortcomings, and made follow-up improvement plans.



Honors

In 2019, the Daesan Power Plant was awarded the Certificate of Accident-free Safe Operation for 2,207 Days issued by the Korea Industrial Safety Association.

The Malacca project of Edra Power Holdings won the Gold Award for Excellence in Occupational Safety and Health in Malaysia in both 2019 and 2020.

In 2020, the Port Said East Power Company (PSEP), a subsidiary of Edra Power Holdings, was awarded the Gold Award for EHS Management by the Egyptian Ministry of Manpower and Immigration.

CGN EuroEnergy won the Gold Award for Safety Achievement by the Royal Society for the Prevention of Accidents (RoSPA) in 2020.

CGNEI 2020 GLOBAL EHS WORKSHOP
能源国际2020年全球安全工作坊

Strengthen Implementation by Closed-loop Management
强化执行, 闭环管理

23rd Nov., 30th Nov., 3rd Dec., 7th Dec.
Online Workshop (China, Korea, Malaysia, Bangladesh, Egypt, France, Sweden, Brazil)

The 2020 Global EHS Workshop

High-quality projects

Aiming at "zero violations and zero quality defects", we strive to raise the awareness of quality and safety across the whole supply chain of engineering construction, and tighten control over the safety, quality, progress, investment, technology and environmental protection of construction projects, so as to guarantee long-term safe operation.

Overseas clean energy projects under construction:

- 1
gas-fired power project
- 1
biomass power plant
- 1
wind power project
- 1
solar greenfield and energy storage project

Honors



CGN Brazil Energy won the 2020 National Quality Award certified by an international quality assessment company.

All overseas branches have obtained ISO9001 quality management system certification by an international quality assessment company.



Brenig onshore wind power project

The Brenig onshore wind power project was started in July 2017 and officially put into operation in March 2019. It is the first wind farm independently constructed by CGNEE. The project consists of 16 wind turbines with a total installed capacity of 37.6 MW, providing power to more than 30,000 households every year.



LDB wind power expansion project

The LDB wind power expansion project is located in Piaui in the northeast of Brazil and consists of eighteen 4.6MW Goldwind wind turbines with a total installed capacity of 82.8 MW. It is the first onshore wind farm independently constructed by CGN in South America. The construction started in December 2020 and after it is put into commercial operation in December 2021, it is expected to generate 366 GWh of electricity per year.



Malacca gas-fired power project

The Malacca gas-fired power project was started on December 29, 2017 and after its completion due in December 2021, it will be the largest gas-fired power project in Southeast Asia, with 3 units with a total installed capacity of 2,242 MW.

Stable operation

The sound and stable operation of equipment in power plants is directly related to the stability of power supply. We continuously improve the operation and maintenance management of each power plant (project) by carrying out special actions, building a global digital management platform and organizing emergency drills, so as to ensure the stable power supply.

Sound operation of equipment

Carrying out special actions. We have formulated improvement plans for each project, regularly organized improvement actions, and reviewed the project progress every month to ensure the stable power generation.

Building a global operation and maintenance (O&M) management platform. We have initially built the basic database of power plants, with such functions as real-time transmission of key production O&M data, data analysis engine, report generation, accident and incident management, experience feedback management and mobile-application-based management. The platform is multilingual, and after its full completion, it can ensure that standardized, transparent information sharing among regional companies, facilitate more in-depth analysis and improve the ability of production data collection and real-time monitoring.

Cybersecurity

We continue to urge regional companies to strengthen their cybersecurity, including the network architecture restructuring of Edra Power Holdings and the relocation of server rooms. According to CGN's information security standards and network optimization plans, we carry out regular and irregular self-inspection and stay on duty as required to ensure cybersecurity during major national meetings and events and report any problems identified in a timely manner.

Emergency response

We have established an emergency management system at all levels, which is running effectively. The Head Office has formulated the Master Plan for Emergency Response and the Rules on Managing EHS Accidents. Regional companies and plants have their own emergency response plans for fire protection, injuries, mountain fire, and transportation, and follow these plans in allocating resources and organizing emergency drills on a regular basis.

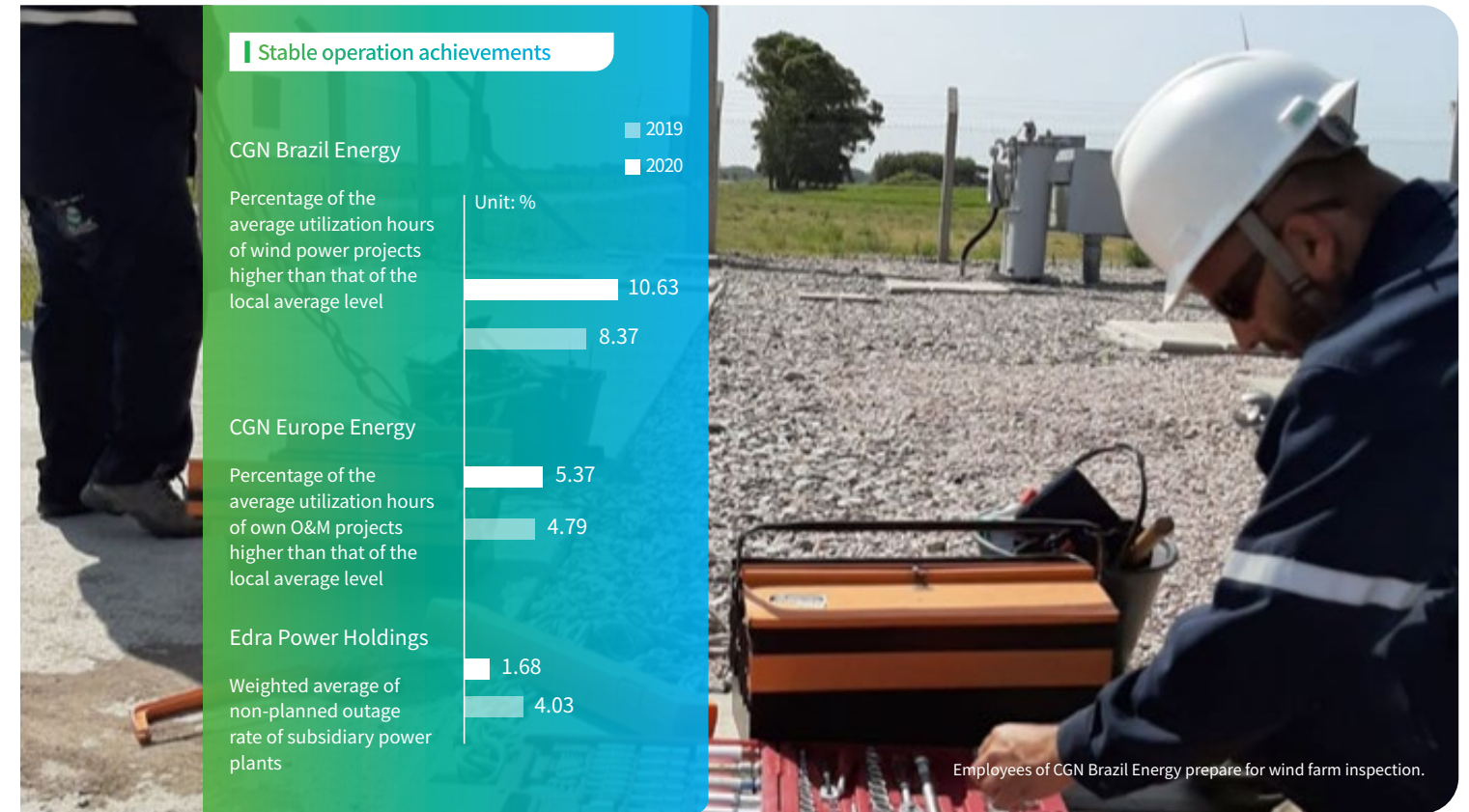
Honors



The Lean Management and Application of Energy Projects along the Belt and Road, a fruit of the "One Policy for One Plant" strategy, was awarded the Second Prize of Energy Innovation by China Energy Research Society in 2019.

CGN Brazil Energy's several wind and solar farms were among the local top **10** in terms of the average utilization hours.

The weighted average equivalent non-planned outage rate of each power plant of CGN Korea in 2020 was lower than **1** %



Safety and health of employees

The safety and health of employees is an important prerequisite for business operation, so we take the following measures to protect their health and safety at the workplace.



The fully-dressed workers of CGN Korea

Occupational health training

We have established a basic training mechanism for safety management based on the outline of EHS management policy, and our overseas subsidiaries have formulated their own training matrix according to their needs. Chinese expatriates will receive security training before they go overseas.

Medical examination

Regular physical examinations are organized for employees, and no occupational disease has been detected and diagnosed.

Occupational hazard protection

We follow the laws and regulations of the host countries, and provide a good working environment for employees and contractors with necessary labor protection supplies.

Psychological counseling

A 7*24 health consultation hotline is set up for expatriates who are asked to do regular self-assessments of mental health.



Talent development



Our goals

We are committed to providing employees with decent work and quality education opportunities, enabling them to realize career growth.

Our actions

Putting talent first in our development, we continue to improve the employment and salary system and provide employees with equal employment opportunities, diverse learning opportunities and a broad stage of development, so that they can play out their potential and realize personal value. We respect local cultures and have launched cultural exchange activities to create a workplace that advocates cultural diversity.

Contributions to SDGs

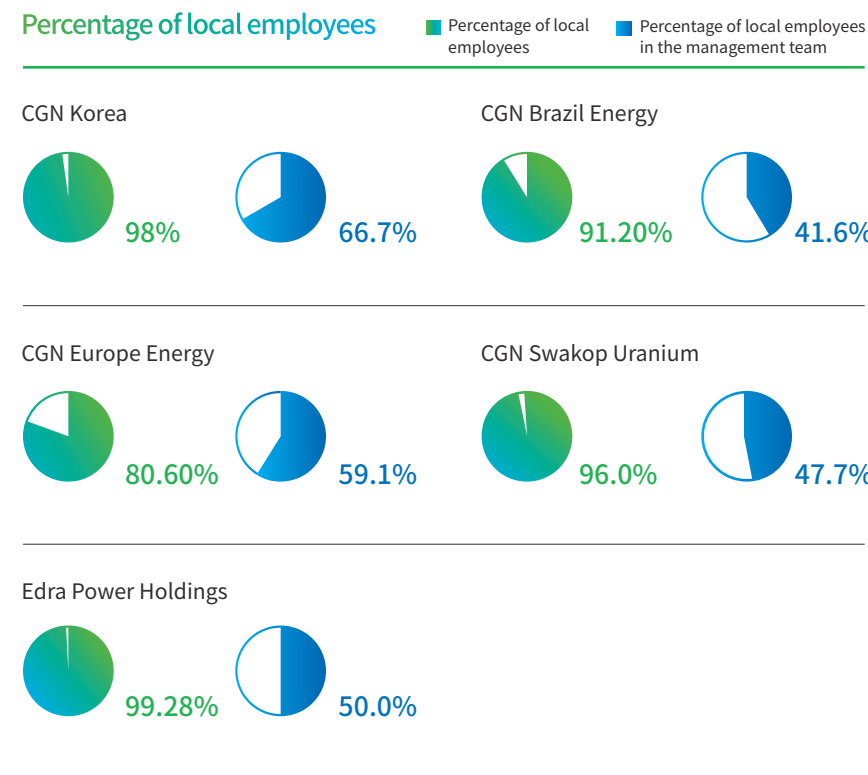


Lawful and equal employment

We have formulated policies on equal and non-discriminatory labor employment, and work to ensure fairness and transparency in recruitment. We resolutely ban discrimination against employees on such grounds as nationality, race, religious belief, gender, age, health status (including HIV infection), and forbid any form of illegal employment, including child labor, human trafficking, and forced labor, thus ensuring fair and lawful employment.

Localized employment

We promote localized employment in all host countries regardless of whether it is statutory or not. We promote capacity building for the local management team and allow local employees to participate in corporate management and operation.



100 %
Labor contract signing rate of regional companies

1,601 employees
CGNEI worldwide (outside Chinese mainland)

331
Female employees, accounting for 20.67%

1,679 local employees
CGN Swakop Uranium, of which female employees account for 11.38%

6.16 %
Turnover rate of overseas employees

Human rights protection

To protect basic human rights of employees and ensure decent work, we strictly abide by the *International Bill of Rights and the Declaration on Fundamental Principles and Rights at Work* of International Labour Organization, and have formulated our human rights policy accordingly. In accordance with relevant laws and regulations of host countries, we have formulated employee management policies, detailing the working hours, salary, recruitment, dismissal, promotion, vacation, benefits, maternity leave, code of conduct, professional ethics and privacy protection rules, to protect employees' lawful rights.

Compensation and benefits

While providing employees with competitive salaries, we strictly comply with the laws and regulations, labor policies and social security mechanisms of the host countries, and have purchased social insurances, including medical insurance, pension insurance, unemployment insurance, work injury insurance and maternity insurance, and supplementary medical insurances (including dental insurance, eye insurance, and preventive medical care) for employees. We also provide employees with annual leave, sick leave, marriage leave, maternity leave, parental leave, compassionate leave and maternity benefits.

Protection of the rights of women and ethnic minorities

It is the due responsibility of every company to protect the rights of women and ethnic minority employees. We strictly abide by the laws and regulations of each host country on women, ethnic minorities, and disadvantaged groups. Edra Power Holdings' Human Resources Policy and Regulations clearly stipulates the rule of equal employment, to effectively protect the rights of women and ethnic minority employees. In addition, we celebrate the International Women's Day to promote gender equality in the workplace and encourage and support the development of women employees.

Democratic communication and grievance mechanism

We attach great importance to democratic communication and have established a multi-channel communication mechanism to listen to and respect the voice of employees. Policies are developed to protect the employees' right to file complaints, so are internal whistle-blowing and grievance mechanisms, and the grievance procedures are well implemented. Solutions are promptly proposed to problems identified. We strengthen employee supervision to ensure that all concerns and complaints are handled fairly, quickly and professionally, hence effectively improving the initiative for democratic communication.

The focus of our human rights protection is as follows



 Story

The strength of a female engineer



"CGNEI gave me the opportunity to participate in management even when I was just a junior engineer, and I accepted that challenge. Engineering is not just about physical work; it is more about how you view things. We spend most of the time analyzing and thinking about what are the optimal maintenance measures for the power plant. Although the work place during outage is dominated by men, I never feel being discriminated against because they accept me the way I am."

— Faiz Maniza



Faiz Maniza is an engineering manager of Jimah Power Plant. She is in charge of outage and she had been working there for 14 years by 2020. She joined the plant as a junior instrument & control engineer after graduating from the major of electrical and electronic engineering. With hopes for the future, she learned from scratch with a group of young inexperienced engineers like her, starting from contractors and original equipment manufacturers. Thirsty for knowledge like a sponge soaking water, she has become a Professional Engineer with Practising Certificate registered with the Board of Engineers Malaysia.

 Story

I want to be the first female team leader in our village

What do dreams mean? Hertha Ruben, a Namibian girl, gave her answer.

Hertha joined CGN's Husab Uranium Mine as an intern after graduation in 2017, responsible for the assembly of mining equipment. Husab Mine is deep in desert, and wrapped in scorching heat all year round. Hertha's uniform was always wet with sweat while she was working. But when coworkers asked her to have a rest, she just smiled and continued working.

When asked why she worked so hard, Hertha said that Namibia's unemployment rate was as high as about 34%, and women accounted for less than 5% in the mining machinery industry. She worked hard because she wanted the opportunity to become an employee in CGN Swakop Uranium, Namibia's largest mining company.

Her hard work did pay off. Two years later, Hertha became a specialist in assembly and disassembly of trucks and auxiliary equipment, with full mastery of the working principles and structure of the engine. Now Hertha has become an excellent mechanic, with two interns learning from her, Tangi and Arnold. In Tangi's eyes, Hertha knows more about the principle and assembly process of the equipment than other colleagues do. When asked about her wishes, Hertha said that she hoped to pay for the college tuition for her brothers and sisters, though she herself did not have the chance to go to college. She also hopes to become an excellent workshop team leader at the Husab Mine, and that means she will be the first female team leader in her village.



"As a black woman, I am respected and promoted here the way I could never dare to imagine in other companies."

— Hertha Ruben



Employee cultivation

Employees are our precious asset. Employee cultivation is not only necessary but also critical for sustainable corporate and personal development. We encourage employees to be lifelong learners, and provide them with training covering professional skills, occupational health, language skills, and strategic leadership. We also review and update our training policies and rules from time to time to better adapt to the fast-changing market and needs of employees.

Unblocked promotion channels

We have formulated the *Human Resources Policy and Regulations* to ensure equal, fair and consistent promotion prospect for all employees. A six-month capacity building program – which could be extended to nine months at most, if necessary – is in place to help employees who need to improve their performance. In this program, we will first evaluate the learning and personal development needs of employees, and then customize the training to ensure that employees have sufficient time and resources to improve their strategic leadership and/or professional skills required for career advancement.

[Case]

The power of CGNEI's female leaders

Siti Norjanna is the electrical maintenance supervisor of Jimah Power Plant. She joined Jimah in 2007 shortly after her college graduation. At that time, the construction of the power plant had just started. Siti promised herself that she would work to ensure that all equipment is in stable operation until the expiration of the Power Purchase Agreement (PPA). That's how she started her career in equipment management.

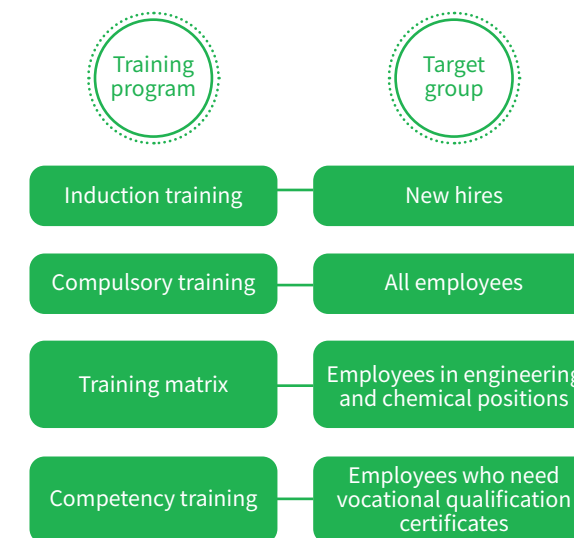
As the supervisor of the electrical maintenance department, Siti is responsible for managing the electrical equipment of the main plant. Her team consists of two engineers, a foreman and five technicians. Siti said that as a female manager, it was indeed difficult to give orders to male employees at the beginning. But she kept learning management knowledge and learning from other managers about how to become a good leader and lead a department. Now, she and her team are working seamlessly and efficiently together.



Siti Norjanna at work

Employee training

CGN has established headquarters training coordinators, base training coordinators, and power plant HSEQ (Health, Safety, Environment, Quality) managers to coordinate and ensure that employee training is institutionalized, and carried out regularly and orderly. If employees have other training needs, they can apply to the Group, and we will provide trainings accordingly. At the same time, in line with the training principle of "theoretical knowledge learning plus hands-on operation," we help employees quickly improve their professional skills to achieve career development. In response to the COVID-19 pandemic, training was moved online to protect the health and safety of employees.



Theory learning in class

Multi-language training

As a multinational company, CGN deeply recognizes the importance of language skills for employees' personal development. We have organized multi-language skills training courses for employees in different regions, including but not limited to French, English, Chinese, and Portuguese.



[Case]

Online Chinese-language learning

In November 2020, CGN Europe Energy in France invited teachers holding the CTCSOL (Certificate for Teachers of Chinese to Speakers of Other Languages) to teach the Chinese language online for interested employees. The first course attracted employees from France, Ireland, Sweden, Belgium, and Senegal, and impressed them so much that they yelled for more Chinese courses and Chinese cultural exchange activities.

CGN Brazil Energy organized a Chinese learning program to help Brazilian employees master basic Chinese, understand Chinese culture, and promote the communication and exchange between local and Chinese employees. The program kicked off on October 15, 2020, with a total of 36 employees.



Poster of the online Chinese learning course in France

Scenes of the online Chinese learning courses

Cultural integration

We respect local customs and practices in host countries/regions. Besides pursuing cross-cultural management and integration, we learn and respect the historical and cultural differences of host countries, and create a relaxing and inclusive workplace that advocates mutual respect for and understanding of different cultures and embraces cultural diversity.

Respecting local cultures

We encourage and support the organization of cultural activities with local characteristics, and promote cultural diversity and inclusiveness, so that Chinese and foreign employees can learn to appreciate each other's culture.

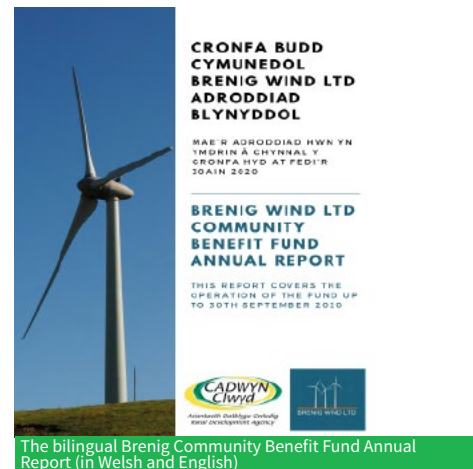
Showcasing the beauty of traditional Chinese culture

Proud of Chinese culture, we celebrate traditional Chinese festivals and customs in the project areas to bring Chinese culture close to overseas employees, enhance cultural understanding and mutual respect between Chinese and foreign employees, and improve the team cohesion.

[Case]

Respecting and protecting the use of Welsh language

In Wales, the United Kingdom, we respect and protect the tradition and status of the Welsh language, the local people's pride in it and call for protecting their national language. Therefore, Brenig Wind Ltd, which is based in Wales, makes it a general rule to have internal documents and reports written in both Welsh and English.



The bilingual Brenig Community Benefit Fund Annual Report (in Welsh and English)

[Case]

Spring Festival celebration

On January 17, 2020, local time, CGN Brazil Energy organized a Spring Festival celebration in the office area in Curitiba to celebrate their first Spring Festival spent in Brazil. Chinese employees shared the origin and folk customs of the Chinese Lunar New Year, and explained to Brazilian employees the meaning of the Chinese character "Fu" and why it was posted upside down. The activity not only brought the Chinese traditional festival and culture to Brazilian employees, but also bridged the gap between the Chinese and Brazilian teams.



Group photo of CGN Brazil Energy



Martial arts performance

[Case]

Spring Festival celebration

On August 9, 2019, the China Week was held during the fifth Husab Marathon held by CGNPC Uranium Resources Co., Ltd. A photo wall themed on Chinese culture, a Chinese food tasting area and Chinese Kung Fu performances were staged on the site, attracting thousands of local audience.

Qin Xuansheng, president of Shaolin Kung Fu Academy in South Africa, and his two black disciples were invited to perform Chinese Kung Fu such as Shaolin Xiao Hong Quan, Chun Qiu Da Dao, Tai Chi and nine-section whip, which was a big hit. The audience rushed to take photos with them after their performance.



"It's my first time to see the amazing Chinese Kung Fu with my own eyes. I like Tai Chi, Drunken Fist, Jackie Chan and Bruce Lee."

— Michael Lebusa



Huang Bo, the chef of the Chinese canteen of CGN Swakop Uranium, prepared the Chinese food for tasting together with another cook Luo Yong. "We prepared three kinds of meat dishes: soft fried shrimps, sweet and sour pork chops and translucent beef slices, as well as three kinds of staple food: steamed stuffed buns, dumplings and sticky rice balls. They were all sold at cost price for more than 2,000 GHS, which was all donated to the local drought relief fund. To Huang's pride, their charity sale was covered by the local TV station.



Chinese food tasting



Community wellbeing



Our goals

We aim to build a harmonious, friendly, and mutually beneficial partnership with the communities in project areas and contribute to local social and economic development.

Our actions

Upholding the principle of "extensive consultation, joint contribution and shared benefits", we give back to the community as much as we can while developing clean projects, and work hard to drive local economic growth, increase employment, and improve local living conditions.

Contributions to SDGs

1 NO POVERTY

3 GOOD HEALTH AND WELL BEING

4 QUALITY EDUCATION

10 REDUCED INEQUALITIES

17 PARTNERSHIPS FOR THE GOALS

Community development

We actively share our development fruits with local communities. We have brought advanced technology, outstanding talents, and stable stream of funds to project areas, and actively promote the development of local clean energy industry.

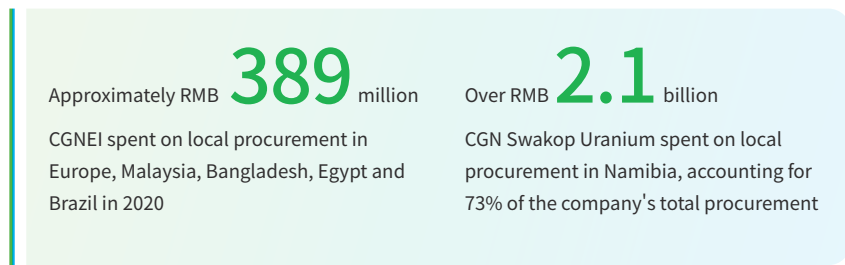
Local economic development

We advocate localized operations and actively source from local suppliers, to increase local employment and tax revenue, and boost local economic prosperity.

Localized procurement

We adopt the localization approach to building a more resilient global supply chain. We make full use of our first-mover advantages in project areas and our comprehensive advantages to help cultivate local equipment manufacturing, markets, talents, technology and other industry factors. As a big buyer, we have greatly helped promote the coordinated development of local economy, cultivated a group of excellent suppliers, and introduced new knowledge and new methods to our partner suppliers to enhance their competitiveness.

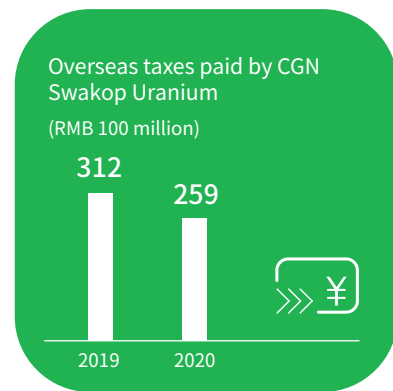
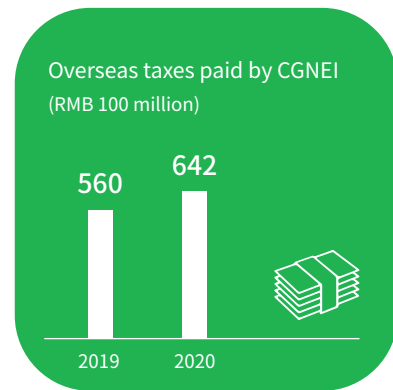
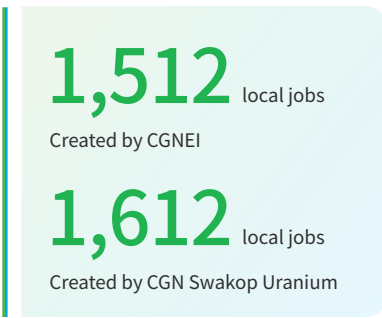
In Namibia, CGN Swakop Uranium has been sourcing from local suppliers whenever it can. In 2019, it signed a five-year fuel supply contract with NAMCOR, and the contract value was estimated to hit RMB 1.3 billion. It also awarded small procurement contracts to local micro and small enterprises, especially socially responsible ones and those engaged in environmental protection business, to help them grow. For example, its order helped M&P Manufacturing, a plastic recycling company hard-hit by COVID-19, resume production.



* Note: The above calculation of the exchange rate between RMB and local currency is based on the 2020 annual average exchange rate.

Facilitation of the development of local industries

By building and running power plants, we have improved local power infrastructure and built a more convenient and efficient energy supply system to meet the energy needs of local social and economic development. In the daily operation of power plants, we have promoted the sustainable development of the basic clean energy industry and local economy.



Community culture building

We bring traditional Chinese culture to the project areas, and participate in building the community culture by launching cultural exchange activities.

[Case] The Moon Cake Workshop

On September 24, 2020, Edra Power Holdings and the non-profit organization Women of Will jointly launched a Moon Cake Workshop at the HDB in PPR Batu Muda to teach participants how to make a mooncake, a traditional Chinese food. Many Chinese and Malaysian employees learned to make mooncakes with red-bean and lotus-seed paste, and shared them with residents nearby. A 48-year-old participant from the Women of Will, even began selling halal mooncakes locally, which was very popular in the market. By learning how to make the Chinese pastry, she made extra income for her family.

[Case] Lady Santa Claus presents you with Christmas gifts

Starting from December 4, 2020, some women employees of CGN Swakop Uranium were dressed as Lady Santa Claus and sent Christmas gifts and greetings to the employees, their family members and local residents until the eve of Christmas.

[Case] The Hanfu Festival: An oriental fashion show at the fashion capital

On November 17, 2019, CGN held the first Hanfu Festival in Italian Deux, a large commercial center in Paris, bringing a fashion show inspired by traditional Han Chinese clothing on both Chinese and western styles to French audience, showing Paris, the fashion capital of the world, the beauty of traditional Chinese clothing. Mr. Buon Tan, chairman of the France-China Friendship Group at French National Assembly and member of the Paris City Council, and Mr. Jérôme Coumet, mayor of the 13th District of Paris, attended the activity.



Community communication

To maintain effective communication with the local community in project areas, we have formulated a communication mechanism, and hold regular activities. We also respond to the questions and messages candidly posted by our followers on mainstream international social media platforms.

[Case]

The Virtual Open Day of Charmon-Wotlek Wind Farm in France

On December 31, 2020, CGN Europe Energy held the Virtual Open Day of Charmon-Wotlek Wind Farm in France, with the theme of "Waltz in the Wind". It aired footages to fully show the beauty of the wind farm, and tell the story of how CGN has been actively fulfilling its CSRs by running wind farms in Europe to contribute to energy conservation, emissions reduction, and local ecological protection.

In the footages, Jean-Baptiste Breban, head of the Central Control Center of CGN Europe Energy, introduced their business operations in six European countries. While strictly abiding by French COVID-19 policies, students from the Department of European and International Culture of UVSQ in France visited the Central Control Center of CGN Europe Energy and attended the lecture given by Baptiste Breban on new energy.



The Virtual Open Day of Charmon-Wotlek Wind Farm

[Case]

The first global sustainability report released in France by a Chinese enterprise

On the morning of September 3, 2019, local time, CGN released the 2018 Global Sustainability Report in Paris, the first sustainability report released by a Chinese enterprise in France. More than 150 representatives attended the press conference, including Lu Shaye, Chinese ambassador to France, Buon Tan, chairman of the France-China Friendship Group at French National Assembly, Martin Neureiter, president of ISO 26000: 2010 Guidance on Social Responsibility, and CGN's international partners and media representatives.

Pursuing business and communication transparency and accepting public supervision, we communicated and interacted with guests and media representatives, and invited representatives of branches to share their stories with CGN. We also answered questions raised by the media and accepted public supervision.



Frieda Abraham, the second from the right, is an employee of CGN Swakop Uranium.

Community contribution

A better life of peace, stability and prosperity is the common aspiration for all people across the world. To the end, we set up special community welfare funds and carry out various charity activities to give back to local communities.

Establishing community welfare funds

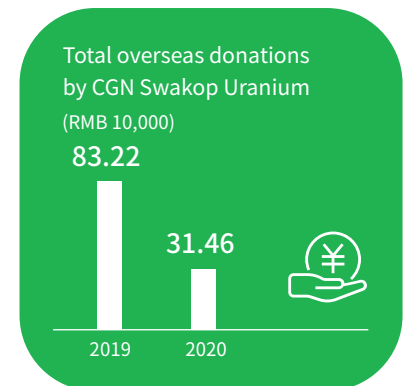
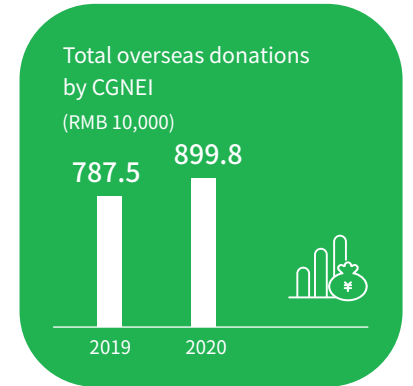
Special community welfare funds are set in project areas to advance local public welfare undertakings, such as culture and education, health services and skills training, so as to improve the wellbeing of local residents.

Swakop Uranium Foundation

Swakop Uranium Foundation funded a total of 19 projects in Namibia in 2019 and 2020, covering such areas as cultural innovation, disaster response management, health and social service lectures, education, infrastructure construction, and donations to One Foundation.

Edra CSR Program

Edra CSR Program funded 39 projects in Malaysia, Bangladesh and Egypt in 2019 and 2020, covering such areas as education, sports events, assistance to vulnerable groups, medical infrastructure construction, health welfare, rescue and disaster relief. In addition to long-term projects, it plans to provide financial, technical and human resources support to more areas requiring social attention.



Brenig Fund

The Brenig Fund is established by CGN Brenig to support community development in Northeast Wales. Operated by Cadwyn Clwyd, a local independent foundation in Wales, the fund had spent a total of GBP 267,872 by mid-September 2020 funding 45 community groups and 47 community projects.



"The donation from CGN Brenig enables us to buy canopies for the artisan market so that we could kick off the project. This donation saved us from debt so that we could focus on the development of our artisan market and encourage more people to come to our beautiful and historical market town. With these canopies, we created a safe outdoor environment for people to meet with their families and friends here, which was particularly important for their mental health in this extraordinary period when it was not that easy to see your families and friends."

— Bernadette O'MALLEY



Community funds in Northern Ireland

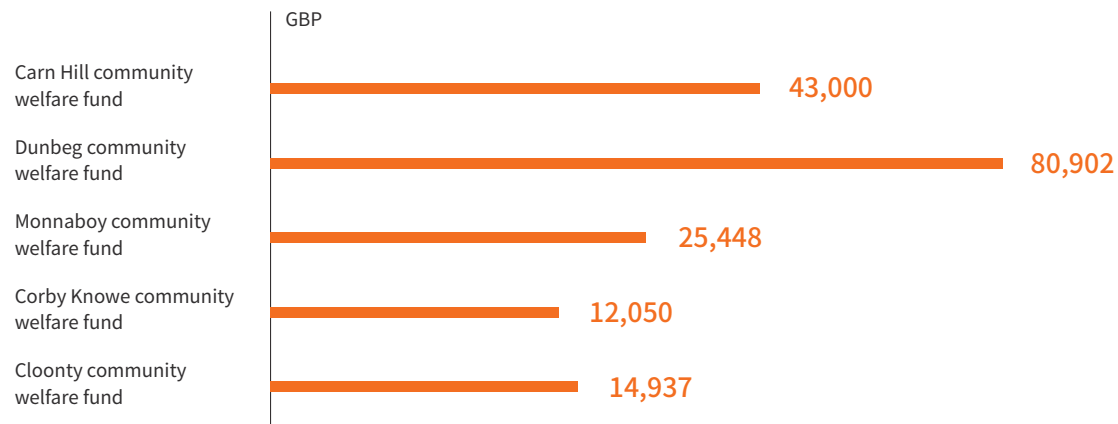
CGN has set up several community welfare funds in Northern Ireland to support projects of community development, education, sports, environmental protection, historical and cultural heritage conservation, elderly care, development of children and adolescents and assistance to other vulnerable groups.

Funded projects by purpose Number

Business groups and networking	2
Environment, natural resources and biodiversity	2
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Causeway Foodbank



Helping the vulnerable

We are concerned about the education of poor children, the personal development of the disabled, and gender equality. We encourage women employment and career promotion, and continue to help local vulnerable groups enjoy the right to a decent life.



Story

Ellie's vegetable farm in Africa

Ellie is a courageous woman from Arandis, Namibia. She was once a cleaner in the local Rossing Uranium Mine. One day she made a brave decision: to start her own business by opening a vegetable farm.

So she rolled up her sleeves and started from scratch. She learned how to grow vegetables, and sought financial support at the same time. Namibia's dry and hot climate proved another headache for her vegetable planting business.

In 2015, after learning about Ellie's story, Swakop Uranium Foundation decided to help her, offered her 156,000 NAD and sponsored her training on soilless planting in South Africa. She said: "This training broadened my horizons and enabled me to learn a lot of new and useful knowledge." After returning to Arandis, Ellie applied the advanced technology she learned to vegetable planting and achieved very good results. Swakop Uranium Foundation also provided technical training for Ellie's employees and sponsored Ellie with agricultural equipment to help her farm increase yields. The vegetables in Ellie's farm have become a hit in local supermarkets. Ellie also started a vegetable picking business, which was very popular among nearby residents. Ellie has become a model for many local entrepreneurs. She often said: "My success would not be possible without the help of Swakop Uranium Foundation of Husab Uranium Mine."

Since then, Swakop Uranium Foundation has held training courses in Arandis to teach soilless planting technology to more entrepreneurs like Ellie. The training, praised by the local people, has brought hopes to them. "We hope that one day, our vegetables will be enough to not only feed the city, but also be exported to other cities."

Supporting education

We care about education development in project areas and actively carry out activities to support education in local communities. We believe that high-quality education will bring fresh impetus for sustainable development to local communities and form a virtuous cycle with our corporate development.

[Case]
Realizing children's dreams for education

In Malaysia, Edra Power Holdings set up scholarships, provided job opportunities for students in need and funded local primary school education to promote local education development.

● **Scholarships for college students in difficulty**

Since 2019, Edra Power Holdings has established scholarships at the Universiti Tenaga Nasional and several other public universities for outstanding students from low-income families, with about 22,000 Ringgit (equivalent to RMB 36,000) for each per academic year. It also gives priority to these recipients in recruitment.

● **Funding primary schools near the power plant**

In Malaysia, many kids dropped out of school due to financial reasons. To help alleviate the financial burden of families and encourage students to stay in school, Edra Power Holdings has launched a student assistance program in 2020, provided 210,000 Ringgit (equivalent to RMB 343,000) to 34 schools, and donated school supplies worth 370,000 Ringgit (equivalent to RMB 606,000) to 2,322 students.

By 2020, CGNEI's Edra student assistance program had donated more than 3.4 million Ringgit in financial assistance and school supplies, benefiting nearly 27,000 students.



The Edra student assistance program 2019 at Kuala Ketil Primary School



Group photo of Edra scholarship recipients

[Case]
Caring for needy children in Brazil

By the end of 2020, CGN Brazil Energy had provided assistance to 780 students in João Paulo II, a local poor kindergarten, with 396,000 BRL, to protect them from dropout of school. On the International Children's Day of 2019, its employees visited and brought gifts for kids in the kindergarten.



Employees of CGN Brazil Energy donate to João Paulo II



Supporting sports development

We care about local sports development in project areas, actively promote the popularization of sports, and build more sports infrastructure to advocate the healthy lifestyle to the public.



We realize that our team needs to do more outdoor sports and work hard to provide resources necessary for exercise, so as to deal with child obesity and the health issues of the elderly. The importance of outdoor sports is brought home to us especially in this year with the raging COVID-19. We hope to hold gymnastics, football, cooking and dance courses once a week. Since we have carried out such projects and activities before, our observation and evaluation results find that they are enjoyed by and good for children. This year is challenging for children, and we as a team will encourage and ensure that children get the best learning and development opportunities.

— Kids Inn After School Club in Northern Ireland sponsored by CGN



From 2018 to 2020, CGN Swakop Uranium spent more than 1.5 million NAD on organizing various sports activities.



By the end of 2020, CGN Brazil Energy had donated 48,000 BRL to the local disabled rugby team.



The disabled rugby team sponsored by CGN Brazil Energy



Supporting medical service

We care about the medical development in project areas, carry out medical and health assistance in local communities, and provide necessary medical equipment for poor communities to enhance the accessibility to health in low- and middle-income countries.

[Case]

Donation of medical equipment to Egypt

In 2019, Edra Power Holdings donated medical equipment worth USD 33,580 to El Hedaia Medical Center in Ismailia, Egypt, including intensive care ventilators, cardiac defibrillators with ECG monitors, blood gas analyzers and patient monitors, to help the hospital equip its renal failure intensive care unit. This donation was one of the long-term projects of Edra Power Holdings to support local medical service in Egypt.

Equipment donated by CGN to El Hedaia Medical Center



Participating in emergency rescue

Leveraging our advantages in technology, talent and resources, we actively participate in the disaster rescue and assistance of local communities to protect the safety of local residents and their property.

[Case]

Participating in wild fire rescue

At the end of September 2020, a wild fire broke out around CGN Brazil Energy's Lapa Solar Power Plant. Three employees of CGN Brazil Energy rushed to the scene immediately to help put out the fire. The company's monitoring center provided effective information and guidance to the employees on scene. The fire was successfully put out, and local residents and their property were protected.



"I can see in my Chinese colleagues courage and the spirit of never giving up. I am deeply amazed by their dedication and professionalism. This could explain why CGN has been growing so strong and developing so rapidly. I also want to keep up with my Chinese colleagues and keep moving forward. I love China, I love CGN, I love CGN Brazil Energy, and I hope we can grow together."

— Holdridge, an employee of CGN Brazil Energy involved in wild fire fighting



Outlook

Facing sustainability challenges such as the raging COVID-19 pandemic, imbalanced regional development and climate change, CGN, as a clean energy enterprise with international influence, will continue to stick to the principle of "extensive consultation, joint contribution and shared benefits" and benchmark against the *UN 2030 Agenda for Sustainable Development*. We will deepen energy cooperation with BRI partner countries and work with stakeholders to build a prosperous, open, inclusive, clean and beautiful world.

Building a road to clean energy

While strengthening cooperation with BRI partner countries, we will, in light of regional resources and demands for development, speed up the expansion of clean projects of wind, solar and biomass energy while maintaining the stable operation of existing projects, thus striving to provide affordable clean energy for local communities and contribute to global energy sustainability.

Building a road to green development

We will continue to pursue green development in project development, construction and operation, and constantly improve the ecological environment management system and ecological compensation mechanism. We will also reduce negative environmental impact and protect the local ecological environment through strict emissions control and various biodiversity conservation actions.

Building a road to harmony and friendliness

Adhering to the concept of international and localized operations, we rely on clean energy projects to drive the development of relevant local industries by employing local people and sourcing local products and services. At the same time, we will continue to jointly carry out various cultural exchanges and public-service activities with local communities, so as to enhance our mutual understanding and friendship and build a community with a shared future.

The new era calls for new responsibilities and actions. In the context of low-carbon recovery of the global economy, we will stay true to the original aspiration and work with partners to facilitate regional energy transition with more high-quality clean energy projects and contribute our share to building a better future.

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Natural Energy Powering Nature

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