



**Powering a Sustainable Future**

**CLP China**



CLP Holdings Limited (HK.00002) was founded in 1901 and listed on Hong Kong Stock Exchange in 1998 with investments in Hong Kong SAR, the Chinese Mainland, Australia and India. Our business spans every major segment of the electricity value chain ranging from power generation, transmission and distribution to retail and smart energy services. With our unswerving commitment to sustainable development, CLP strives to achieve decarbonisation and digitalisation to meet the evolving needs of energy users in different markets. We aim to be a leading responsible energy provider, from one generation to the next, in order to deliver our purpose: Power Brighter Tomorrows.

Founded in **1901**

CLP Holdings was listed in Hong Kong SAR in **1998**

Market capitalisation of **HK\$165 billion**

Investments across Asia Pacific

✓ Hong Kong SAR

✓ Australia

✓ the Chinese Mainland

✓ India

## Highlights of 2024



Revenue

HK\$  
**90,964**  
million



Total assets

HK\$  
**233,713**  
million



Electricity sent out

**79,760**  
million kWh

(On an equity plus long-term capacity and energy purchase basis; covering generation and energy storage portfolios generation and energy storage portfolios)



**5.21** million

Customer accounts

**2.83** million in Hong Kong  
**2.38** million in Australia



**17,000** km

Transmission and high voltage distribution lines



**8,415**

Employees across Asia Pacific

## CLP's Climate Vision 2050

### CLP's Key Targets and Commitments

By 2030

Reduce our GHG emissions intensity of electricity sold to:

Emissions reduction

**0.26**  
kg CO<sub>2</sub>e/kWh  
↓ 59% from 2019

2030

By 2040

Reduce our GHG emissions intensity of electricity sold to:

**0.1**  
kg CO<sub>2</sub>e/kWh  
↓ 84% from 2019

2040

By 2050

Reach net-zero GHG emissions across our value chain

**Net zero**

2050

Phasing out coal assets

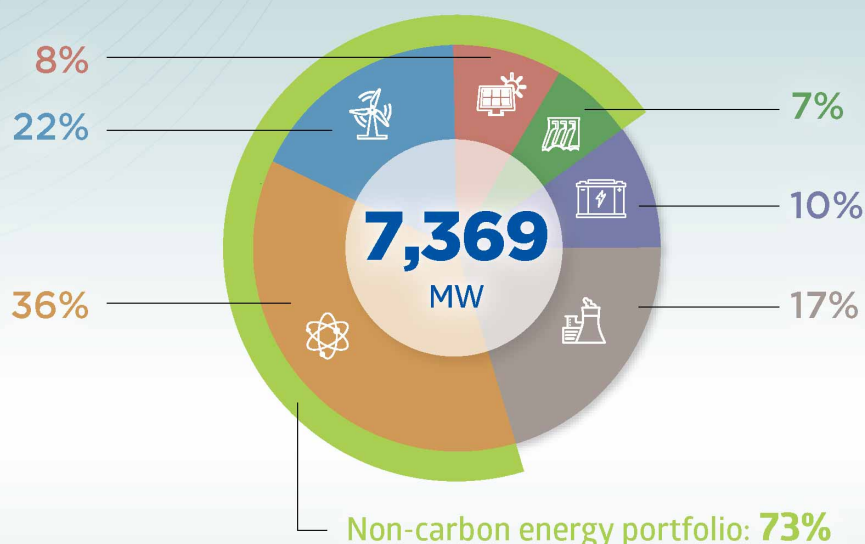
Maintain our position on ceasing the development of new coal-fired power plants in CLP's portfolio

Before 2040

Phase out coal

### CLP's Asset Distribution in the Mainland

CLP engages in the development of the energy sector in the Mainland with determination and integrity, and has investments across 15 provinces, autonomous regions and municipalities including North China (Beijing, Shandong, Hebei, Tianjin and Inner Mongolia), East China (Jiangsu and Shanghai), South China (Guangdong and Guangxi), Northeast China (Jilin and Liaoning), Southwest China (Guizhou, Yunnan and Sichuan), and Northwest China (Gansu). As a developer, investor, project manager and operator in the Mainland's energy market, CLP has more than 50 power generation projects in the Mainland, including 27 wholly-owned projects at an accumulated investment of over RMB60 billion. As of 31 December 2024, the total installed capacity (on an equity basis) of CLP in the Mainland reached 7,369MW.



|                                                                                     |                |         |                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Nuclear        | 2,685MW |  Guangdong                                                      |
|  | Wind           | 1,609MW |  Guangdong, Guangxi, Guizhou, Jilin, Shandong, Shanghai, Yunnan |
|  | Solar          | 592MW   |  Gansu, Guangdong, Jiangsu, Liaoning, Yunnan                    |
|  | Hydro          | 489MW   |  Guangdong, Sichuan, Yunnan                                     |
|  | Energy storage | 747MW   |  Guangdong, Jilin, Jiangsu, Yunnan, Guizhou, Shandong           |
|  | Coal           | 1,248MW |  Hebei, Inner Mongolia, Liaoning, Tianjin, Beijing              |

(Information as of 31 December 2024)



# CLP China – Key Strategies

CLP entered the Mainland's energy market in 1979. Today, CLP China is one of the largest external investors in the energy sector in the Mainland. It is powering the fast-growing economy of the Mainland, with a focus on developing clean and low-carbon energy.

## 01

### Clean Energy

Under the guidance of the nation's dual carbon goals, CLP has established a long-term development strategy with the installed capacity of non-carbon energy reaching over 70% of its total capacity in the Mainland. In developing new projects, CLP will adopt a more selective approach, focusing on regions with stronger power demand, more favourable wind and solar resources, and lower exposure to grid curtailment.

## 02

### Green Innovation

Leveraging innovative technologies and green energy solutions, CLP is dedicated to sustainable development, and supports corporate customers to achieve their goals on the decarbonisation journey. Multiple partnerships in the medium to long term on green energy certificate and power purchase agreement have been established, which created long-term value for our stakeholders while supporting the green transformation of energy consumption and the high-quality development of the national economy.

## 03

### Digital Transformation

CLP drives new quality productive forces, propelling the development with continuous momentum through digital transformation and smart technology. In 2024, the company established its first centralised control centre in Jiangsu province, marking a milestone in optimising operational management and performance of our assets in their entire lifecycle. The Shandong centralised control centre, set to launch in 2025 as CLP China's big data analytics hub, will provide enhanced support for our low-carbon development strategy.

## 04

### Super Connector and Super Value-adder

As an energy corporation rooted in Hong Kong for over one hundred years, CLP possesses extensive knowledge in international investment, design, construction, operations, asset management and corporate governance, alongside world-leading customer service experience. We are committed to leveraging the role of Hong Kong as a "super connector" and "super value-adder" to promote China's advanced decarbonisation technologies abroad, and to enhance international awareness of China's progress in decarbonisation and green products. As China accelerates its energy transition, CLP is strengthening collaboration with partners in the Mainland, integrating international management expertise into the nation's new power system, contributing to energy security and a shared sustainable future.

## 05

### Talent Development

At CLP, the health and safety of employees remain our first priority as we strive to build a future-ready, high-quality workforce. We are committed to fostering a safe, diverse, and inclusive workplace to facilitate the mutual growth of our employees and the company, unleashing people's potential and cultivating innovative talent in the rapidly evolving energy industry. In recognition of our dedication to employee well-being and corporate culture, CLP China was honoured with two national awards in 2024, the Wellness Employer Award and the Outstanding Contribution to Corporate Culture Award, presented by the China Human Resources Management Association and China International Intellectech Co., Ltd.



## Nuclear

Nuclear energy is playing a pivotal role in the decarbonisation journey of China and the world.

Daya Bay Nuclear Power Station in Guangdong is jointly developed, built and operated by CLP and China General Nuclear Power Corporation. It is one of the earliest, largest and most successful joint ventures in the early stage of reform and opening up of the Mainland. Daya Bay Nuclear Power Station commenced operation in 1994, and currently generates around 15TWh of electricity per year, of which 80% of its output is supplied to Hong Kong. Daya Bay Nuclear Power Station has been providing safe, reliable and non-carbon electricity to Hong Kong for over 30 years, meeting a quarter of Hong Kong's electricity demand.

In addition, CLP completed the acquisition of 17% equity interest in Yangjiang Nuclear Power Company Limited in 2017, adding approximately 1,100MW of non-carbon generation capacity to CLP's portfolio. Currently, all the electricity generated by Yangjiang Nuclear Power Station is supplied to users in Guangdong through the Guangdong Power Grid.



In 1994, Daya Bay Nuclear Power Station Unit 1 was put into operation.



In 2009, CLP was granted an extension of the joint venture term for Daya Bay Nuclear Power Station. The then Vice President Xi Jinping attended the signing ceremony.

## Solar



The green development of Yunnan Xicun agrivoltaic project



Abundant harvests of crabs at the Jiangsu Yangzhou Gongdao aquavoltaic project

In November 2015, Yunnan Xicun II project officially commenced operation. Xicun Solar Power Station is CLP's first wholly-owned solar power project and the first large-scale agrivoltaic project in Yunnan. Honeysuckle is planted in the power station, and the combination of agricultural activities with solar power generation brings multiple benefits to the community.

Also, CLP adopts the aquavoltaic model first at Jiangsu Sihong Solar Power Station and uses abundant local water resources to develop fish farms under solar panels, breeding crabs, crayfish and mandarin fish, etc.

In 2023, Yangzhou Gongdao Solar Power Station was commissioned. It is CLP's first grid-parity solar project in the Mainland.

In the first five months of 2025, the two-phase 140MW Yixing Solar Power Station in Jiangsu province has been connected to the grid successively, making it CLP's largest solar power project in operation in the Mainland in terms of installed capacity. In addition, 96MW Huai'an Nanzha Solar Power Station in Jiangsu also went into service, while the 300MW Guangxi Hepu Solar Power Station commenced construction and is expected to start operation in 2026.



## Wind

Since 2006, CLP has made significant progress in wind power development in the Mainland, with projects in Jilin, Shandong, Yunnan, Guizhou, Guangdong, Guangxi and Shanghai.

In 2021, Jilin Qian'an III Wind Farm was connected to the grid. It is CLP's first grid-parity project with a 5MW battery energy storage system. The combined capacity of I to III reached 199MW.

CLP's first grid-parity wind farm in Yunnan Province, Xundian II Wind Farm, was commissioned in 2023. It is the first wind farm equipped with the largest single turbine generator in the CLP fleet with a capacity of 6.25MW.

In 2024, several renewable energy projects started construction, including the 100MW Sandu II Wind Farm in Guizhou province, 300MW Juancheng Wind Farm and 231MW Guanxian Wind Farm in Shandong province.

In Q1 2025, 150MW Bobai Wind Farm in Guangxi was connected to the grid, marking CLP's largest wind farm in operation in the Mainland in terms of installed capacity.



Yunnan Xundian II Wind Farm

## Hydro

In 1997, CLP acquired Huaiji Hydro Power Project in Zhaoqing, Guangdong, which became CLP's first renewable energy investment project in the Mainland. Since then CLP has built and operated 12 hydro power stations in Huaiji.

In 2009, Dali Yang'er Hydro Power Station in Yunnan, CLP's first wholly-owned hydro power project, was put into operation.

In 2011, Sichuan Jiangbian Hydro Power Station, CLP's largest hydro power project in the Mainland, was put into operation.



Guangdong Huaiji Hydro Power Station

## Coal

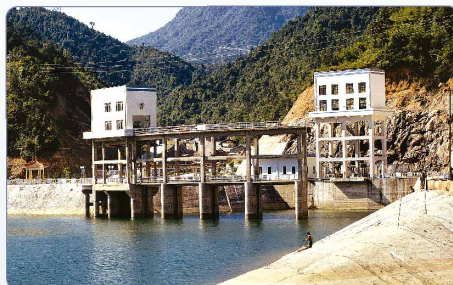


Hebei Sanhe Power Station

At present, CLP holds only minority stakes in coal-fired assets located in Hebei, Tianjin, Liaoning, Inner Mongolia and Beijing in the Mainland.

## Energy Storage

The total capacity of Guangzhou Pumped Storage Power Station is 2,400MW, and CLP has the contractual right to use half of the Phase I facility (600MW). In addition, wind farms of Qian'an III, Xundian II, Sandu II as well as solar power stations of Yangzhou Gongdao, Yixing I & II, Huai'an Nanzha are all equipped with battery energy storage systems. In addition, the 100MW Guanxian Battery Energy Storage System is CLP's first standalone energy storage project in the Mainland.



Guangzhou Pumped Storage Power Station



The battery energy storage system at Jiangsu Yixing I Power Station

# Corporate Social Responsibility

"Care" is one of CLP's core values. Over the years, we work closely with the communities where we operate to provide care and assistance to people in need, while promoting community wellbeing, environmental protection, education, culture preservation and voluntary work.



## Rural Vitalisation Programme

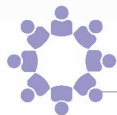
A community initiative on rural vitalisation has been launched since 2023, aiming to promote the application and awareness of renewable energy among the next generation, as well as to empower talent and culture development in rural areas. We have delivered projects in schools and communities, including the installation of over 230 solar lights, smart display panels and a reading room, benefiting more than 6,500 teachers and students. Moreover, our donation to the Mashaowan Village History Museum in Shandong chronicles the village's history while promoting renewable energy through interactive wind power exhibits. The reservoir renovation and expansion project in Guangxi has also improved water access for agricultural and domestic use of over 1,000 villagers.



The Mashaowan Village History Museum



CLP installs solar lights in schools.



## Community Wellbeing

- Every year, we make donations, organise visits and safety talks, and enhance facilities and services to improve the livelihood of the neighboring community of our assets;
- In 2009, CLP Group donated HK\$6 million to set up the CLP-Tsinghua University "Clean Energy Education Fund" to provide financial aid to financially disadvantaged students and support scientific research and educational activities of the Electrical Engineering Department of Tsinghua University. Building on this long-term partnership, CLP Group strengthens collaboration with the University in the areas of energy-related research and internship programmes;
- In 2020, CLP made donations to various provinces in the Mainland to fight against COVID-19, which benefitted about 350,000 people;
- In 2021, CLP donated HK\$1 million to support the flood relief efforts in Zhengzhou;
- In 2023, CLP donated HK\$1 million to support the relief efforts for the Jishishan earthquake in Linxia, Gansu province.



At the launch ceremony of the CLP-Tsinghua University "Clean Energy Education Fund", CLP Holdings Chairman Sir Michael Kadoorie (right) receives a certificate of appreciation from the beneficiaries.



CLP signs a strategic cooperation agreement with Tsinghua University, making CLP Tsinghua University's first "Undergraduate Practice Training Base" in Hong Kong.



## Youth Education

- Different assets support youth education by subsidising teaching facilities and school equipment, as well as providing donations and scholarships to students in need.



CLP has made donations to build a library.



## Environmental Protection

- Every year, on the World Environment Day (5 June), various assets of CLP would launch environmental activities such as tree planting, school talks and student drawing competitions to raise environmental awareness among local residents;
- To help ethnic-minority students learn more about environmental protection, CLP has published bilingual booklets on environmental protection in three dialects (Tibetan-Chinese, Zhuang-Chinese, Miao-Chinese) to pass on ethnic language and culture.



CLP volunteers and their families protect the environment by planting trees.



## Culture Preservation

- Launched "The Green Cedar Project" in 2019, a poverty alleviation and cultural inheritance campaign for ethnic minorities in Guangxi, aiming to help the underprivileged students and residents to stay as resilient as green cedar trees;
- Published the first Black Miao Dictionary in Guangxi Zhuang Autonomous Region in 2022, featuring about 1,500 vocabularies and short sentences, to enable students to learn the language which is ebbing away.



One of the initiatives in the Green Cedar Project is to preserve the culture of ethnic minorities. CLP invited a Miao embroidery inheritor to help train over 100 Miao women in the embroidery craft to improve their lives.



## Volunteer Service

- CLP encourages employees to participate in volunteer activities, and has set up volunteer teams to organise various activities in the vicinity of its assets;
- During 2022-2023, CLP launched the "Knitting for the Community" programme in the Mainland. Over 1,100 volunteers from Hong Kong and the Mainland knitted over 1,600 clothing items and accessories such as scarves, hats, sweaters, etc.



"Knitting for the Community" campaign brings warmth to children and elderly in need.

# CLP China — Milestones

- CLP and Guangdong Nuclear Investment Company Limited jointly established Guangdong Nuclear Power Joint Venture Company Limited to build the first large-scale commercial nuclear power station in the Mainland - Daya Bay Nuclear Power Station

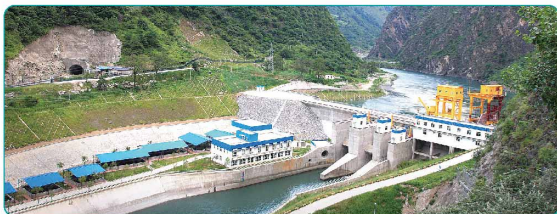
- In the same year, Lord Lawrence Kadoorie, then Chairman of CLP Holdings, was received by then state leader Deng Xiaoping at the Great Hall of the People



- CLP invested in its first renewable energy project in the Mainland - Guangdong Huaiji Hydro Power Joint Venture

- CLP and China General Nuclear Power Corporation entered into a 20-year extension of the joint venture term for Daya Bay Nuclear Power Station
- Dali Yang'er Hydro Power Station in Yunnan, CLP's first wholly-owned hydro power project in the Mainland, was put into operation

- Sichuan Jiangbian Hydro Power Station, CLP's largest hydro power project in the Mainland, was put into operation



- Yunnan Xicun I Solar Power Station, the first solar project invested and wholly-owned by CLP in The Mainland, was put into operation

- Jilin Qian'an III Wind Farm was connected to the grid, becoming CLP's first grid-parity project and the first one with a 5MW battery energy storage system in the Mainland



- The two-phase 140MW Jiangsu Yixing Solar Power Station has been connected to the grid successively, making it CLP's largest solar power project in operation in the Mainland in terms of installed capacity

1979

- CLP was successfully connected to the Guangdong power grid to supply electricity to Guangdong

1985

- The Guangzhou Pumped Storage Power Station was built

1993

- Jiang Zemin, then President of the People's Republic of China, received Sir Michael Kadoorie, Chairman of CLP Holdings (fourth from left, first row)



1997

2001

- Jilin Qian'an I Wind Farm, the first wind power project invested and wholly-owned by CLP in the Mainland, was put into operation

2009

2010

- Gansu Jinchang Solar Power Station, CLP's first solar project in the Mainland, was put into operation



2011

2013

2014

2017

- CLP completed the acquisition of 17% equity interest in Yangjiang Nuclear Power Company Limited

- Yunnan Xundian II Wind Farm, the first wind farm equipped with the largest single turbine generator in the CLP fleet with a capacity of 6.25MW, was put into operation

- As CLP's first grid-parity solar project in the Mainland, Yangzhou Gongdao Solar Power Station was commissioned in 2023

2021

2023

- 30 years of safe operation at Daya Bay Nuclear Power Station, supplying over 320 billion kWh of electricity to Hong Kong

2024

2025

