

Our Portfolio

CLP's business spans every major segment of the energy value chain, including retail, transmission, distribution, and a diversified portfolio of electricity generation assets. The tables below detail the total generation and energy storage capacity¹ as well as business activities in each CLP market as of 31 December 2021.

Hong Kong	Mainland China	Australia	India	Southeast Asia and Taiwan	Total
8,243MW	9,071MW	5,470MW	2,040MW	285MW	25,108MW

Hong Kong				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Capacity (Equity / Long-term Purchase)
Customer Services				
Electricity and customer services for about 2.71 million customer accounts in Kowloon, the New Territories and most of Hong Kong's outlying islands	Hong Kong	100%	-	-
Transmission and Distribution				
555km of 400kV lines, 1,638km of 132kV lines, 22km of 33kV lines and 14,182km of 11kV lines 67,479 MVA transformers, 237 primary and 15,204 secondary substations in operation	Hong Kong	100%	-	-
Gas				
Black Point Power Station , one of the world's largest gas-fired combined-cycle power stations comprising a new 550MW unit ² , seven 337.5MW units and one 312.5MW unit. A second new unit with 600MW capacity is under construction	Hong Kong	70%	3,825MW	3,825MW
Coal				
Castle Peak Power Station , comprising four 350MW coal-fired units and another four 677MW units. Two of the 677MW units can use gas as a backup fuel. All units can use oil as a backup fuel	Hong Kong	70%	4,108MW	4,108MW
Others				
Hong Kong Branch Line , comprising a 20km pipeline (including subsea portion of 19km) and the associated gas launching and end stations, which transports natural gas from PipeChina's Second West-East Gas Pipeline in Shenzhen Dachan Island to Black Point Power Station	Hong Kong	40%	-	-
Hong Kong LNG Terminal Limited develops, owns and operates the offshore LNG terminal in Hong Kong, currently under construction, to provide LNG regasification and related services to Castle Peak Power Company Limited and The Hongkong Electric Company, Limited	Hong Kong	49%	-	-
Penny's Bay Power Station , comprising three 100MW diesel-fired gas turbine units mainly for backup purpose	Hong Kong	70%	300MW	300MW
West New Territories Landfill Gas Power Generation Project , comprising five new 2MW units which make use of landfill gas from waste for power generation ³	Hong Kong	70%	10MW	10MW

Mainland China				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Capacity (Equity / Long-term Purchase)
Nuclear				
Guangdong Daya Bay Nuclear Power Station , comprising two 984MW Pressurised Water Reactors. Through long-term capacity purchase, 70% of electricity generated is supplied to Hong Kong, with the remaining 30% sold to Guangdong Province ⁴	Guangdong	25%	1,968MW	1,577MW
Yangjiang Nuclear Power Station , comprising six 1,086MW generating units	Guangdong	17%	6,516MW	1,108MW
Wind				
Nanao II Wind Farm	Guangdong	25%	45MW	11MW
Nanao III Wind Farm	Guangdong	25%	15MW	4MW
Sandu Wind Farm	Guizhou	100%	99MW	99MW
Changling II Wind Farm	Jilin	45%	49.5MW	22MW
Datong Wind Farm	Jilin	49%	49.5MW	24MW
Qian'an I Wind Farm	Jilin	100%	49.5MW	49.5MW
Qian'an II Wind Farm	Jilin	100%	49.5MW	49.5MW
Qian'an III Wind Farm ⁵ , with a 5MW Battery Energy Storage System	Jilin	100%	100MW	100MW
Shuangliao I Wind Farm	Jilin	49%	49.3MW	24MW
Shuangliao II Wind Farm	Jilin	49%	49.5MW	24MW
CLP Laizhou I Wind Farm	Shandong	100%	49.5MW	49.5MW
CLP Laizhou II Wind Farm	Shandong	100%	49.5MW	49.5MW
Dongying Hekou Wind Farm	Shandong	49%	49.5MW	24MW
Huadian Laizhou I Wind Farm	Shandong	45%	40.5MW	18MW
Laiwu I Wind Farm	Shandong	100%	49.5MW	49.5MW
Laiwu II Wind Farm	Shandong	100%	49.5MW	49.5MW
Laiwu III Wind Farm ⁶	Shandong	100%	50MW	50MW

Notes:

- Of projects in operation and under construction on an equity basis, in addition to long-term capacity and energy purchase arrangements. Minor discrepancies may result from rounding.
- The new 550MW Combined-Cycle Gas Turbine (CCGT) unit was commissioned in October 2020.
- West New Territories Landfill Gas Power Generation Project commenced operation in March 2020.
- Agreements have been reached to increase the proportion of energy supply to Hong Kong to slightly above 70% in 2014 and to about 80% from 2015 to 2023, with the remainder continuing to be sold to Guangdong Province.
- Qian'an III project was connected to grid on 31 December 2021 and commenced commercial operation on 1 March 2022.
- Commenced commercial operation in September 2020.

Mainland China (Cont'd)				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Capacity (Equity / Long-term Purchase)
Lijin I Wind Farm	Shandong	49%	49.5MW	24MW
Lijin II Wind Farm	Shandong	49%	49.5MW	24MW
Penglai I Wind Farm	Shandong	100%	48MW	48MW
Rongcheng I Wind Farm	Shandong	49%	48.8MW	24MW
Rongcheng II Wind Farm	Shandong	49%	49.5MW	24MW
Rongcheng III Wind Farm	Shandong	49%	49.5MW	24MW
Weihai I Wind Farm	Shandong	45%	19.5MW	9MW
Weihai II Wind Farm	Shandong	45%	49.5MW	22MW
Zhanhua I Wind Farm	Shandong	49%	49.5MW	24MW
Zhanhua II Wind Farm	Shandong	49%	49.5MW	24MW
Chongming Wind Farm	Shanghai	29%	48MW	14MW
Xundian I Wind Farm	Yunnan	100%	49.5MW	49.5MW
Hydro				
Huaiji Hydro Power Stations	Guangdong	84.9%	129MW	110MW
Jiangbian Hydropower Station	Sichuan	100%	330MW	330MW
Dali Yang_er Hydropower Station	Yunnan	100%	49.8MW	49.8MW
Solar				
Jinchang Solar Power Station	Gansu	100%	85MW ⁷	85MW ⁷
Meizhou Solar Power Station	Guangdong	100%	36MW ⁸	36MW ⁸
Huai'an Solar Power Station	Jiangsu	100%	12.8MW ⁹	12.8MW ⁹
Sihong Solar Power Station	Jiangsu	100%	93MW ¹⁰	93MW ¹⁰
Lingyuan Solar Power Station	Liaoning	100%	17MW ¹¹	17MW ¹¹
Xicun I Solar Power Station	Yunnan	100%	42MW ¹²	42MW ¹²
Xicun II Solar Power Station	Yunnan	100%	42MW ¹³	42MW ¹³
Coal				
Beijing Yire Power Station ¹⁴	Beijing	30%	-	-
Fangchenggang Power Station Phase I	Guangxi	70%	1,260MW	882MW
Fangchenggang Power Station Phase II	Guangxi	70%	1,320MW	924MW
Sanhe I and II Power Stations	Hebei	16.5%	1,330MW	219MW
Zhungeer II and III Power Stations	Inner Mongolia	19.5%	1,320MW	257MW
Suizhong I and II Power Stations	Liaoning	15%	3,760MW	564MW
Shenmu Power Station ¹⁵	Shaanxi	49%	-	-
Heze II Power Station	Shandong	29.4%	600MW	176MW
Liaocheng I Power Station	Shandong	29.4%	1,200MW	353MW
Shiheng I and II Power Stations ¹⁶	Shandong	29.4%	1,260MW	370MW
Panshan Power Station	Tianjin	19.5%	1,060MW	207MW
Energy Storage				
Rights to use 50% of Phase I of Guangzhou Pumped Storage Power Station for serving CLP's Hong Kong business under a long-term capacity purchase agreement	Guangdong	-	1,200MW	600MW
Others				
Fangchenggang Incremental Distribution Network ¹⁷	Guangxi	22.05%	-	-
Po Park Centralised Cooling System ¹⁸	Guangdong	-	-	-

7 Gross / CLP Equity MW are expressed on an alternating current (AC) basis. If converted to direct current (DC), they are equivalent to 100 / 100MW.

8 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 42.5 / 42.5MW.

9 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 15 / 15MW.

10 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 110 / 110MW.

11 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 20 / 20MW.

12 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 50 / 50MW.

13 Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 50 / 50MW.

14 Beijing Yire Power Station ceased operation on 20 March 2015.

15 Shenmu Power Station ceased operation on 28 February 2018.

16 Shandong Zhonghua Power Company, Ltd., in which CLP has a 29.4% stake, ceased owning the power stations from 1 January 2022.

17 The project company, of which TUS-CLP Smart Energy Technology Co. Ltd. is a shareholder, builds and operates an incremental distribution network (IDN) at Fangchenggang Hi-Tech Zone. Supply to customers commenced in April 2020.

18 In 2021, CLP signed a contract to invest in and operate a centralised cooling system at Po Park Shopping Plaza in central Guangzhou until 2036.

Australia				
Assets and Services	Location	CLP's Interest (Equity / Long-term Purchase)	Gross Capacity	CLP's Capacity (Equity / Long-term Purchase)
Customer Services				
Electricity and gas services for 2.44 million customer accounts	New South Wales, Queensland, South Australia and Victoria	100%	-	-
Wind				
Cathedral Rocks Wind Farm	South Australia	50%	64MW	32MW
Gas				
Tallawarra Gas-fired Power Station ¹⁹	New South Wales	100%	420MW	420MW
Hallett Gas-fired Power Station ²⁰	South Australia	100%	235MW	235MW
Jeeralang Gas-fired Power Station	Victoria	100%	440MW	440MW
Newport Gas-fired Power Station	Victoria	100%	500MW	500MW
Coal				
Mount Piper Coal-fired Power Station	New South Wales	100%	1,430MW ²¹	1,430MW ²¹
Yallourn Coal-fired Power Station and Brown Coal Open-cut Mine	Victoria	100%	1,480MW	1,480MW
Renewable Energy Long-term Purchase²²				
Boco Rock Wind Farm	New South Wales	100%	113MW	113MW
Bodangora Wind Farm	New South Wales	60%	113MW	68MW
Coleambally Solar Farm	New South Wales	70%	150MW	105MW
Gullen Range Wind Farm	New South Wales	100%	166MW	166MW
Manildra Solar Farm	New South Wales	100%	46MW	46MW
Taralga Wind Farm	New South Wales	100%	107MW	107MW
Ross River Solar Farm	Queensland	80%	116MW	93MW
Waterloo Wind Farm Stage 1 ²³	South Australia	100%	111MW	111MW
Gannawarra Solar Farm	Victoria	100%	50MW	50MW
Mortons Lane Wind Farm	Victoria	100%	20MW	20MW
Energy Storage				
Rights to charge and dispatch energy from Ballarat Battery Storage which operates 24 / 7 and is capable of powering more than 20,000 homes for an hour of critical peak demand before being recharged	Victoria	100%	30MW / 30MWh	30MW / 30MWh
Rights to charge and dispatch energy from Gannawarra Battery Storage which is capable of powering more than 16,000 homes through two hours of peak demand before being recharged	Victoria	100%	25MW / 50MWh	25MW / 50MWh
Others²⁴				
Pine Dale Black Coal Mine	New South Wales	100%	-	-
India				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Equity Capacity
Wind				
Mahidad Wind Farm	Gujarat	60%	50.4MW	30MW
Samana I Wind Farm	Gujarat	60%	50.4MW	30MW
Samana II Wind Farm	Gujarat	60%	50.4MW	30MW
Sidhpur Wind Farm ²⁵	Gujarat	60%	251MW	150MW
Harapanahalli Wind Farm	Karnataka	60%	39.6MW	24MW
Saundatti Wind Farm	Karnataka	60%	72MW	43MW
Chandgarh Wind Farm	Madhya Pradesh	60%	92MW	55MW
Andhra Lake Wind Farm	Maharashtra	60%	106.4MW	64MW
Jath Wind Farm	Maharashtra	60%	60MW	36MW

19 Construction of a new power plant (Tallawarra B), with capacity of about 316MW, is expected to begin at the site of Tallawarra Power Station in the first quarter of 2022.

20 Gross capacity at Hallett Power Station increased to 235MW in early 2020.

21 Gross capacity at Mount Piper Power Station increased to 1,430MW in early 2021.

22 Relates to long-term power purchase from power stations in which CLP has neither equity nor operational control.

23 The power purchase agreement for the Waterloo Wind Farm Stage 1 increased to 100% from 50% in November 2020.

24 The equity interests in the Narrabri gas project and Wilga Park Gas-fired Power Station were sold to Santos in December 2021.

25 Construction of Sidhpur Wind Project commenced in 2021.

India (Cont'd)				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Equity Capacity
Khandke Wind Farm	Maharashtra	60%	50.4MW	30MW
Bhakrani Wind Farm	Rajasthan	60%	102.4MW	61MW
Sipla Wind Farm	Rajasthan	60%	50.4MW	30MW
Tejuva Wind Farm	Rajasthan	60%	100.8MW	60MW
Theni I Wind Farm	Tamil Nadu	60%	49.5MW	30MW
Theni II Wind Farm	Tamil Nadu	60%	49.5MW	30MW
Solar				
Gale Solar Farm	Maharashtra	60%	50MW ²⁶	30MW ²⁶
Tornado Solar Farm	Maharashtra	60%	20MW ²⁷	12MW ²⁷
Cleansolar Renewable Energy Private Limited ²⁸	Telangana	60%	30MW ²⁹	18MW ²⁹
Divine Solren Private Limited ³⁰	Telangana	60%	50MW ³¹	30MW ³¹
Veltoor Solar Farm	Telangana	60%	100MW ³²	60MW ³²
Gas				
Paguthan Power Station ³³ , a combined-cycle gas-fired power plant designed to run on natural gas with naphtha as alternate fuel	Gujarat	60%	655MW	393MW
Coal				
Jhajjar Power Station , comprising two 660MW supercritical coal-fired units	Haryana	60%	1,320MW	792MW
Transmission				
Satpura Transco Private Ltd. , which runs a 240km 400kV double circuit intra-state transmission line	Madhya Pradesh	60%	-	-
Kohima-Mariani Transmission Ltd. ³⁴ , which runs a 254km 400kV double circuit interstate transmission line in Northeast India, and owns a 400 / 220kV gas insulated switchgear substation at Kohima in the state of Nagaland	Assam, Nagaland and Manipur	29.4%	-	-
Southeast Asia & Taiwan				
Assets and Services	Location	CLP's Equity Interest	Gross Capacity	CLP's Equity Capacity
Solar				
Lopburi Solar Farm	Thailand	33.3%	63MW ³⁵	21MW ³⁵
Coal				
Ho-Ping Power Station	Taiwan	20%	1,320MW	264MW

Figures include rounding adjustments.

²⁶ Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 69 / 41.4MW.

²⁷ Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 27.6 / 16.6MW.

²⁸ Cleansolar Renewable Energy Private Limited was acquired in March 2020.

²⁹ Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 36.6 / 22MW.

³⁰ Divine Solren Private Limited was acquired in April 2020.

³¹ Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 59.8 / 35.9MW.

³² Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 120 / 72MW.

³³ Paguthan Power Station did not undertake any significant commercial generation in 2021.

³⁴ Apraava Energy acquired a 49% interest in Kohima-Mariani Transmission Ltd. in December 2021.

³⁵ Gross / CLP Equity MW are expressed on an AC basis. If converted to DC, they are equivalent to 83 / 28MW.