

28 October 2021

中華電力有限公司
CLP Power Hong Kong Limited

CLP Power Accelerates Hong Kong's Energy Transition with New Gas-Fired Generation Units

CLP Power Hong Kong Limited ("CLP Power") today (28 October) held an opening ceremony for a new gas-fired generation unit at Black Point Power Station, marking an important milestone in Hong Kong's energy transition towards a zero-carbon future.

In support of the Government's environmental policies and fuel mix targets, CLP Power has built a new gas-fired generation unit at Black Point Power Station in Tuen Mun to further reduce the carbon intensity of its power supply. The new unit, D1, has already been in operation since mid-2020, substantially increasing the ratio of natural gas in CLP Power's fuel mix from below 30% in 2019 to around 50% in 2020.

The opening ceremony was officiated by the Chief Executive of the HKSAR The Honourable Mrs Carrie Lam Cheng Yuet-ngor and Chairman of CLP Holdings The Honourable Sir Michael Kadoorie. CLP Holdings Vice Chairman Mr William Mocatta, Chief Executive Officer Mr Richard Lancaster, Group Director and Vice Chairman of CLP Power Mrs Betty Yuen, and Managing Director of CLP Power Mr T K Chiang were also in attendance of the celebration.

Speaking at the ceremony, Sir Michael Kadoorie said, "CLP firmly supports the Government's mission to make our city carbon neutral by the middle of this century, and as part of our relentless effort, the CLP Group has committed to achieving net-zero greenhouse gas emissions by 2050. The addition of this new generation unit continues our commitment to play a small part as the world addresses the challenges of climate change."

Chief Executive of the HKSAR Mrs Carrie Lam Cheng Yuet-ngor said, "Since about two-thirds of Hong Kong's greenhouse gas emissions come from electricity generation, "net-zero carbon emissions for electricity generation" is the most important area in our decarbonisation efforts. CLP Power's Black Point Power Station was the first power station in Hong Kong using natural gas to generate electricity. I am pleased to learn that the ratio of natural gas in CLP Power's fuel mix has increased from less than 30% in 2019 to about 50% in 2020 after the commissioning of the new gas-fired generation unit D1. As power companies gradually replace coal with natural gas and zero-carbon energy, we estimated that the carbon emissions of Hong Kong in 2020 has reduced by about one-fifth from the 2005 level. Although using natural gas to generate electricity

is cleaner than using coal, we must introduce more zero-carbon energy in a wider scope so as to achieve the carbon neutrality goal in 2050.”

Unit D1 at Black Point Power Station has a generation capacity of 550 megawatts, the largest of all existing gas-fired units in Hong Kong and sufficient to power 900,000 homes. The unit uses Combined Cycle Gas Turbine (CCGT) technology with more advanced design that is capable of achieving an efficiency rate of around 60%, far higher than the other eight units currently in operation.

CLP Power plans to introduce more new gas-fired generation units in the short and medium term. The commissioning of Unit D1 has cut carbon emissions by one million tonnes a year, equivalent to the planting of more than 42 million trees. The new unit has also reduced the carbon intensity of power generation by 26% to 0.37 kg per unit of electricity consumption. CLP Power is outperforming developed countries including Japan and South Korea, and is on a par with Germany and the United States, in reducing emissions from power generation.

To continue the phasing out of coal-fired units at Castle Peak A Power Station, CLP Power is constructing a second new gas-fired generation unit, Unit D2, at Black Point Power Station. The second unit is expected to go into operation in 2023 and will further increase the proportion of natural gas in CLP Power’s fuel mix.

In addition to constructing gas-fired generation units, CLP Power has opened a waste-to-energy WE Station at the West New Territories (WENT) Landfill. The project is Hong Kong’s largest facility using landfill gas for electricity generation and supports the Government’s policy of promoting waste-to-energy and renewable energy initiatives. The WE Station went into operation in the first quarter of 2020, and its first phase comprises five units connected to the CLP Power electricity grid with a total generation capacity of 10 megawatts.

Appendices:

- 1) [Facts about CLP Power’s new gas-fired generation unit](#)
- 2) [Facts about the WE Station - Hong Kong’s largest landfill gas power generation project](#)

About CLP Power Hong Kong Limited

CLP Power Hong Kong Limited (“CLP Power”) is the Hong Kong utility subsidiary wholly owned by CLP Holdings Limited, a company listed on the Hong Kong Stock Exchange and one of the largest investor-owned power businesses in Asia. CLP Power operates a vertically integrated electricity supply business in Hong Kong, and provides a highly reliable supply of electricity and excellent customer service to six million people in its supply area. In 2021, CLP celebrates the 120th anniversary of its founding in Hong Kong with a commitment to continue to move forward with the community based on a shared vision of a better tomorrow.

Photo Captions:

Photo 1



Chairman of CLP Holdings The Honourable Sir Michael Kadoorie (3rd from right), Vice Chairman Mr William Mocatta (2nd from right), Chief Executive Officer Mr Richard Lancaster (2nd from left), Group Director and Vice Chairman of CLP Power Mrs Betty Yuen (1st from right), and Managing Director of CLP Power Mr T K Chiang (1st from left), are joined by Chief Executive of the HKSAR The Honourable Mrs Carrie Lam Cheng Yuet-ngor at the opening ceremony of a new gas-fired generation unit (D1) at Black Point Power Station. The commissioning of the low-carbon unit supports Hong Kong's energy transition.

Photo 2



Chief Executive of the HKSAR The Honourable Mrs Carrie Lam Cheng Yuet-ngor addresses the audience at the ceremony.

Photo 3



Chairman of CLP Holdings The Honourable Sir Michael Kadoorie says CLP firmly supports the Government's mission to make our city carbon neutral by the middle of this century.

Photo 4



Chief Executive of the HKSAR The Honourable Mrs Carrie Lam Cheng Yuet-ngor, in front of the new gas-fired generation unit (D1), with Chairman of CLP Holdings The Honourable Sir Michael Kadoorie (6th from right), Vice Chairman Mr William Mocatta (5th from right), Chief Executive Officer Mr Richard Lancaster (5th from left), Non-executive Director Mr Philip Kadoorie (3rd from right), Group Director and Vice Chairman of CLP Power Mrs Betty Yuen (3rd from left), Executive Council Member The Honourable Kenneth Lau (4th from right), Chairman of the Energy Advisory Committee Mr Jimmy Kwok (4th from left), Director of China Southern Power Grid International (HK) Mr Han Rui (2nd from right), Managing Director of CLP Power Mr T K Chiang (1st from right), Chief Corporate Development Officer of CLP Power Ms Quince Chong (2nd from left) and Senior Director – Generation of CLP Power Mr Paul Tomlinson (1st from left).

Photo 5



The commissioning of Unit D1 in 2020 has seen CLP Power's gas-fired power generation ratio increase to around 50% of the fuel mix.

Photo 6



CLP Power's waste-to-energy WE Station at the West New Territories (WENT) Landfill is Hong Kong's largest facility to use landfill gas to generate electricity. It went into operation in the first quarter of 2020.

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