

27 August 2026

CLP Power Advances the Trial of Hong Kong's First-ever Hydrogen-Blended Natural Gas for Electricity Generation

CLP Power Hong Kong Limited (CLP Power) aligns with the national energy transition strategy and supports hydrogen energy development under the National 15th Five-Year Plan through its pursuit of forward-looking low-carbon technologies. As an important component of its diversified fuel strategy, CLP Power is developing a hydrogen-blended natural gas electricity generation trial project at Black Point Power Station (the Project). This marks the first hydrogen-blended generation initiative at a power station in Hong Kong. The Project will help build local operational experience in using hydrogen for electricity generation and support Hong Kong's transition towards carbon neutrality.

The Inter-departmental Working Group on Using Hydrogen as Fuel, led by the Environment and Ecology Bureau, announced today (27 August) that the Project has been included in the list of "Trial Projects on Hydrogen Fuel for Local Application". CLP Power is advancing related engineering works to support Hong Kong's low-carbon energy transition.

The first phase of the Project will be carried out on one of the gas-fired generation units at Black Point Power Station. Approximately 5% hydrogen will be blended with natural gas for electricity generation. The Project will provide valuable insights into the technical requirements, generation performance and commercial viability of hydrogen as fuel for electricity generation.

CLP Power has commenced technical collaboration with GE Vernova, the equipment manufacturer of the gas-fired generation unit, and is working with contractors to construct the associated facilities at Black Point Power Station, including a hydrogen receiving and depressurising station, a hydrogen blending station and other auxiliary equipment. Upon completion of the construction works, the Project will enter the generation trial phase, with testing expected to be completed in 2028. Compared with

similar power generation units currently in operation, world-leading technologies are applied in the Project.

CLP Power Managing Director Mr Joseph Law said, “Hydrogen is recognised as one of the important low-carbon energy sources of the future and is also a strategic development priority under the National 15th Five-Year Plan. CLP Power will continue to support national and Government energy policies by steadily advancing the application of hydrogen technologies. Through this hydrogen-blended natural gas electricity generation trial project, we aim to gain valuable operational data and practical experience that will lay the foundation for the long-term development of hydrogen-fired electricity generation, supporting Hong Kong’s carbon neutrality journey and contributing to the national efforts to build an energy powerhouse.”

CLP Power has long been committed to advancing innovation and the application of low-carbon energy technologies. From pioneering the use of natural gas for electricity generation in Hong Kong in 1996 to advancing hydrogen applications today, CLP Power continues to play a leading role in Hong Kong’s energy transition.

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 services to more than six million people in its supply area.

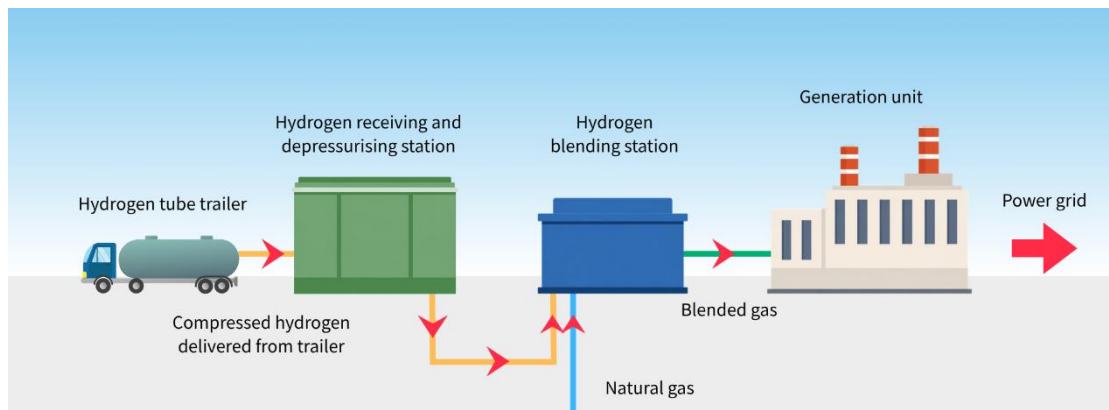
Photo Captions:

Photo 1



CLP Power is developing a hydrogen-blended natural gas electricity generation trial project at Black Point Power Station.

Photo 2



The diagram illustrates the hydrogen-blended natural gas electricity generation process. CLP Power is constructing supporting facilities at Black Point Power Station, including a hydrogen receiving and depressurising station, a hydrogen blending station and other auxiliary equipment.

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