

22 September 2022

## **CLP Power Teaches Students Energy Audit Techniques to Nurture a New Generation of Energy Management Professionals**

CLP Power Hong Kong Limited (CLP Power) has provided expert training to enable around 100 Vocational Training Council (VTC) students to conduct energy audits on 17 campuses of VTC member institutions to identify potential energy-saving opportunities and propose solutions to improve energy efficiency. The training programme was part of an initiative of CLP Power and the VTC to promote energy conservation and carbon reduction by nurturing a new generation of energy management professionals to support Hong Kong's long-term carbon reduction strategy.

CLP Power signed a Memorandum of Understanding with the VTC in June this year to become its sustainable development partner. In the first collaboration programme, CLP Power engineers provided three-month energy audit training, including theoretical and practical elements, to about 100 VTC students majoring in Engineering, and Health and Life Sciences Disciplines. CLP Power engineers acted as mentors to the students as they conducted energy audits on facilities at 17 campuses of VTC member institutions, including chiller rooms, power plant rooms, and drinking water pump rooms. The students checked the operational status of a variety of energy equipment, measuring ambient temperatures and reviewing equipment specifications and past electricity consumption records.

After completing energy audits, students on the training course suggested solutions for energy efficiency improvements. Lim Yuen Fung, a Year 3 student studying the Diploma of Vocational Education (Mechanical Engineering) at Youth College, suggested installing daylight sensors next to the windows to control lighting levels and reduce electricity consumption and costs. "The training enhanced my understanding of energy management," he said. "Low-carbon and sustainable development are megatrends, and I look forward to working in these fields in future."

Lam Pui Chi, a Year 2 student taking the Higher Diploma in Mechanical Engineering programme at the Hong Kong Institute of Vocational Education (IVE) said, "The training stimulated my interest in energy management technologies and taught me that replacing equipment is not the only way to save energy. Retro-commissioning, combined with the

use of Internet of Things or AI technology, is a more cost-effective way to adjust air conditioning system settings and equipment operation.”

CLP Power Senior Director of Customer Success and Experience Ms Lena Low said, “CLP Power offers a free energy audit service to help customers identify energy management opportunities and promote the transition to a low-carbon future. Demand for energy management professionals is rising rapidly given the Hong Kong SAR Government’s target of achieving carbon neutrality by 2050. CLP Power aims to nurture young energy management professionals for Hong Kong by passing on expertise in energy audits and other energy management techniques to students.”

The energy audit service offers businesses an opportunity to better understand the energy consumption of their facilities, find ways to improve energy efficiency and reduce operating costs. CLP Power provides free energy audits and suggests energy saving solutions to industrial and commercial customers, accelerating the implementation of low-carbon transition projects in support of Hong Kong’s target of achieving carbon neutrality by 2050. By the end of August this year, the potential electricity savings from solutions adopted following energy audits amounted to 9.4 gigawatt hours (GWh) of electricity – equivalent to a reduction in carbon emissions of more than 3,600 tonnes.

CLP Power has worked with the VTC over the years to help students pursue professional careers in power engineering, including co-organising the part-time programmes with the VTC and an overseas university, ranging from Bachelor, Professional Diploma to Diploma qualifications in electrical and mechanical engineering. CLP Power and the VTC established the CLP Power Engineering Laboratory together in 2021 to provide more professional training. In addition, CLP Power teamed up with the VTC and the Guangzhou Industry and Trade Technician College to co-organise Hong Kong’s first power engineering programme, which supports the vocational skill requirements of Guangzhou and Hong Kong, helping local power professionals take up opportunities in the Greater Bay Area. CLP Power also launched the CLP Award for VPET Students in 2020, with HK\$1.5 million allocated each year to help students who have financial difficulties and enrolled in vocational and professional education and training programmes in engineering and environmental protection.

### **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 signed a Memorandum of Understanding in June this year to become a sustainable development partner of the VTC and launched the first sustainability collaboration programme by providing energy audit training to around 100 VTC students.

From Left to Right: Vocational Training Council Deputy Executive Director Dr Eric Liu, Vocational Training Council Director of Corporate and Environmental Sustainable Office Mr Jonathan Lee, CLP Power Deputy Director of Business Sales Mr Lo Kwok Yau and CLP Power Director of Customer Success and Sales Dr Anthony Lo.

Photo 2



Under the guidance of CLP Power engineers, VTC student Lim Yuen Fung (right) conducts an energy audit on facilities at a VTC campus, looking for potential energy conservation opportunities and proposing energy saving solutions.

Photo 3



CLP Power engineer explains energy audits and other energy management techniques to VTC students through theoretical and practical training.

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