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CLPe Partners with VTC to Develop Campus Solar Power System and Nurture Green Talent

CLPe partners with the **Vocational Training Council (VTC)** to provide a one-stop Solar-as-a-Service (SaaS) solution across multiple VTC campuses and facilities. VTC is committed to advancing sustainable development and nurturing future talent with green skills and innovative thinking through vocational and professional education and training (VPET). Apart from reducing carbon emissions and enhancing energy efficiency, the project integrates teaching and research elements, enabling students to apply classroom knowledge to real-life applications and operational data analysis. Through this hands-on learning experience, students can deepen their understanding of green technologies and energy transition while putting learning into practice.

CLPe will tailor the one-stop SaaS solution according to the orientation, solar exposure and geographical conditions of individual campus buildings. Equipped with a comprehensive monitoring and management platform, the solar system is designed to ensure effective and reliable operation while maximising power generation efficiency. From investment, design and installation, to ongoing operation and maintenance, CLPe provides one-stop support to help VTC accelerate its low-carbon transformation.

The project will be implemented in two phases, with the first phase already underway. More than 1,400 solar panels will be installed across seven VTC campuses in the first phase. Upon completion, the project will comprise over 2,000 solar panels installed across 13 campuses covering more than 17 buildings. Scheduled for completion in 2027, the project will span around 5,600 square metres of rooftop space and generate around 1.3 GWh of renewable electricity annually, equivalent to the annual electricity consumption of approximately 400 households, and reducing carbon emissions by around 490 tonnes per year.

The collaboration will also support teaching and learning. CLPe's professional team will conduct sharing sessions on VTC campus, introducing students to the principles of solar power generation, system design and operations. Students enrolled in the Higher Diploma in Sustainability and Environmental Management and the Higher Diploma in Environmental Protection and Management offered by the Hong Kong Institute of

Vocational Education (IVE), as well as the Higher Diploma in Software Engineering offered by the Hong Kong Institute of Information Technology (HKIIT), will make use of operational data collected from the campus solar system, together with regional weather information, including solar radiation, temperature and visibility, to conduct analysis. They will study how different environmental factors influence the performance and carbon reduction effectiveness of renewable energy systems, and develop artificial intelligence model and digital platform to showcase their findings and learning outcomes on campus.

CLPe Managing Director Mr Ringo Ng said, “Hong Kong’s transition to carbon neutrality relies on the integration of low-carbon energy infrastructure, smart energy management and talent development. As Hong Kong’s largest VPET provider, VTC is uniquely positioned to demonstrate how renewable energy can be integrated into daily campus operations. This collaboration also helps establish a model that combines low-carbon campus development with vocational and professional education.

Leveraging our one-stop energy solutions and project management expertise, CLPe will continue to explore further collaboration with VTC in areas such as solar energy, cooling, electric vehicle charging, and smart energy management. Together, we aim to deliver forward-looking energy solutions for the low-carbon transformation of VTC’s campuses, setting new benchmarks for sustainable campus.”

VTC Executive Director Mr Donald Tong said, “VTC has been actively supporting Hong Kong’s Climate Action Plan 2050 of the Government. By integrating sustainable practice into campus operations and teaching, we are committed to nurturing professional talent with green skills, digital literacy and innovative thinking to support Hong Kong’s low-carbon transformation. This collaboration is not only a green infrastructure project, but also closely integrates green campus development with talent cultivation, providing students with valuable learning opportunities, and demonstrating the importance of industry-institution collaboration.”

VTC also plans to participate in the Feed-in Tariff (FiT) Scheme, further enhancing the project’s environmental and economic benefits, allowing the low-carbon campus initiative to serve as a long-term demonstration of sustainable development in action.

About CLPe

CLPe, a wholly owned subsidiary of CLP Holdings Limited, is dedicated to advancing the transition to low-carbon energy and sustainable development in Hong Kong and the Chinese Mainland. The company delivers large-scale energy infrastructure and offers one-stop energy management solutions, comprising cooling, solar power generation, energy storage systems, electrical and mechanical engineering, and smart

energy services. Its “Build-Own-Operate-Transfer” model effectively supports customers in achieving energy saving and carbon reduction goals. CLPe actively promotes electric vehicle charging and liquefied natural gas bunkering services to support the development of green transport. For more details, please visit www.clpesolutions.com.

About VTC

Established in 1982, the Vocational Training Council (VTC) is the largest vocational and professional education and training provider in Hong Kong. The mission of VTC is to provide a valued choice to school leavers and working people to acquire the values, knowledge and skills for lifelong learning and enhanced employability, and also to provide support to industries for their manpower development. VTC has 14 member institutions, namely the [Technological and Higher Education Institute of Hong Kong \(THEi\)](#), [the Institute of Professional Education And Knowledge \(PEAK\)](#), [the School for Higher and Professional Education \(SHAPE\)](#), [the Hong Kong Institute of Vocational Education \(IVE\)](#), [the Hong Kong Design Institute \(HKDI\)](#), [the Hong Kong Institute of Information Technology \(HKIIT\)](#), [the Hotel and Tourism Institute \(HTI\)](#), [the Chinese Culinary Institute \(CCI\)](#), [the International Culinary Institute \(ICI\)](#), [the Maritime Services Training Institute \(MSTI\)](#), [Youth College](#), [Pro-Act by VTC](#), [the Integrated Vocational Development Centre \(IVDC\)](#) and [the Shine Skills Centre](#).

Photo Caption:

Photo 1



(From left) Deputy Executive Director of Vocational Training Council Dr Eric Liu, Executive Director of Vocational Training Council Mr Donald Tong, CLPe Managing Director Mr Ringo Ng, and CLPe Director of Decarbonisation Business Mr Alvin Lo attend the “Empowering Green Energy • Co-creating Low-Carbon Campuses” Launch Ceremony.

Photo 2 and 3



The first phase of the project, delivered under CLPe's one-stop Solar-as-a-Service solution, is already underway. More than 1,400 solar panels will be installed at seven VTC campuses and facilities in the initial phase. Upon completion of both phases, around 2,000 solar panels will be installed across the rooftops of more than 17 buildings at 13 campuses. The project is expected to reduce carbon emissions by approximately 490 tonnes annually.

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