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CLP Power Wins Top Prize at Asian Power Awards for Innovative and Eco-Friendly Substation Design in Lok Ma Chau Loop

CLP Power Hong Kong Limited (CLP Power) is focused on reducing carbon emissions in every aspect of its power generation and business operations. In addition to deploying innovative technology and promoting digitalisation, CLP Power is decarbonising its infrastructure for power generation and supply to contribute to greater sustainability. In recognition of its innovative, environmentally-friendly design, CLP Power's Ho To West 132kV substation has won the Gold Award in the Transmission and Distribution Project of the Year category of the Asian Power Awards 2022, known as the Oscars of the regional energy industry.

The substation serving the Lok Ma Chau Loop area is under construction and will go into operation in the first quarter of 2026. It will provide a stable and reliable electricity supply to new high-tech research and development facilities, education and creative industries, residential areas and ancillary infrastructure. It will support the Hong Kong-Shenzhen Innovation and Technology Park, fostering closer technological cooperation between the two cities.

The design of the substation incorporates a range of green and sustainable features, including solar panels, a rainwater harvest system, and electric vehicle chargers. In addition, the two-storey substation will have extensive greenery on its rooftop and vertical walls, blending in with the natural environment. Its modern design mirrors the atmosphere of innovation and technology among the businesses it will serve, as well as the low-carbon vision of the Lok Ma Chau Loop. Building Information Modeling (BIM) technology was used in the design of the substation to improve its safety and cost effectiveness, and the project has been awarded a Provisional Platinum rating in BEAM Plus Assessment by the Hong Kong Green Building Council.

CLP Power Senior Director of Power Systems Mr Eric Cheung said we were honoured to receive the award as it recognised the power expertise and exceptional performance of the project team. "Our engineering team integrates environmental protection concepts and innovative technologies to reduce carbon emissions when we design and construct new substations. We are committed to providing safe, reliable and sustainable power to our customers and will continue to promote green building methods to help transform Hong Kong into a low-carbon smart city," he said.

The Asian Power Awards is the region's most prestigious event of its kind and celebrates ground-breaking initiatives in the Asia-Pacific power sector. Judges include top global experts and industry leaders, and the awards recognise enterprises for embracing innovation, supporting sustainable development, and practicing social responsibility. CLP Power has previously won the awards for the Hong Kong-Zhuhai-Macao Bridge substation, the West Kowloon Cultural District substation, the Kai Tak Cable Tunnel, Queen's Hill substation, Shing Kai Road substation, Ma Sik Road substation, and the new gas-fired generation unit D1 at Black Point Power Station.

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 Senior Director of Power Systems Mr Eric Cheung (middle) and Director of Transmission Mr Alex Wong (second from left) say the award for the design of the Ho To West 132kV substation recognises the efforts of the project team in support of innovation and technological development in Hong Kong and Shenzhen.

Photo 2



The design for the Ho To West 132kV substation, shown in the computerised image above, won the Gold Award in the Transmission and Distribution Project of the Year category in the Asian Power Awards 2022. Its green, modern design and sustainable features blend in with the natural environment as well as the neighbouring innovation and technology community.

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