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**MTR and CLP Power Join Forces to Drive Railway Decarbonisation
Slashing Over 20,000 Tonnes of Carbon Emissions Annually in Hong Kong
Awarded Top Recognition by Association of Energy Engineers**

MTR Corporation (MTR) and CLP Power Hong Kong Limited (CLP Power) are both dedicated to driving social progress and reducing greenhouse gas emissions. The joint project, “CLP x MTR - Decarbonising Railway Transportation”, has received the “Energy Project of the Year: International” award by the Association of Energy Engineers (AEE). As one of the Association’s highest accolades, this award recognises the outstanding achievements of both companies in decarbonisation and energy efficiency enhancement.

MTR is committed to enhancing energy efficiency and carbon reduction across every part of its railway network, from planning and design to daily operations. Key decarbonisation measures under the award-winning project include upgrading chiller systems and split-type air conditioners across railway facilities, progressively replacing station lighting with energy-efficient LED systems, and implementing regenerative braking technology across all MTR trains. In addition, MTR is introducing electric buses into its bus fleet and expanding solar photovoltaic installations. These measures have resulted in annual energy savings of nearly 60 GWh, which is equivalent to the annual electricity consumption of around 14,000 households in Hong Kong. Furthermore, they have led to a reduction of approximately 22,000 tonnes of carbon emissions each year, comparable to the annual carbon absorption of over 950,000 trees¹. (For details of MTR’s carbon reduction measures for railway operations, please refer to the Annex.)

“Railway transport and power supply are vital infrastructure assets that underpin Hong Kong’s global competitiveness and drive the city toward a sustainable future. We have long collaborated with power supply partners to advance social progress and elevate the quality of life for our society. This award represents prestigious international recognition of the decarbonisation achievements of MTR and CLP Power. MTR will continue to explore and adopt cutting-edge energy-saving technologies and work

¹ The calculation is based on the “Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purposes) in Hong Kong” published by the Environment and Ecology Bureau and the Electrical and Mechanical Services Department, in which a CO₂ removal factor reference of 23 kg per tree per year has been adopted.

closely with our power supply partners to provide greener and higher-quality railway transport services for the public,” said Mr Wilson Kwong, MTR Corporation Hong Kong Transport Services Director.

Throughout MTR’s energy-saving and decarbonisation initiatives, CLP Power has provided comprehensive energy management and technical support. This has included conducting energy audits to analyse electricity consumption at railway stations, identifying energy-savings opportunities, and recommending suitable energy management and technical solutions. Through its “Eco Building Fund”, CLP Power has also subsidised energy-efficiency enhancement projects at MTR stations and depots to improve their overall energy performance. In addition, under the “Peak Demand Management Programme”, CLP Power has offered rebates to encourage MTR to flexibly manage electricity consumption at stations during peak demand periods, further reducing carbon emissions.

“Railways form the backbone of low-carbon mobility in Hong Kong, with electricity enabling their sustainable development and green transformation. As MTR’s energy partner, CLP Power has supported railway projects from planning and design to operation, providing reliable power supply, energy management services and innovative technology solutions to enhance energy efficiency. This international recognition underscores the success of our long-standing partnership in advancing railway decarbonisation through forward-looking planning and innovation. Looking ahead, CLP Power will continue to leverage its electrification expertise to support new railway developments and accelerate the low-carbon transformation of the existing network. Together with MTR, we will help Hong Kong build a more resilient, low-carbon public transport system on its journey towards carbon neutrality,” said Ms Lena Low, CLP Power Senior Director of Customer Success and Experience.

The AEE is a non-profit professional society with more than 18,000 members in over 100 countries and regions. Under its annual awards programme, the International Awards represent the highest honours, recognising those who exemplify the very best in their fields. Please refer to the website of the Association for more information regarding the awards: <https://www.aeecenter.org/aee-award-year/2026/>

As a low-carbon public transport operator, MTR accounts for only 11.0%² of the city’s total energy consumption by the public transport sector. MTR is committed to reducing greenhouse gas emissions, proactively advancing its decarbonisation strategy, achieving the Science Based Targets initiative (SBTi)-endorsed carbon reduction target by 2030, and supporting Hong Kong’s decarbonisation journey towards carbon neutrality by 2050. Building on their existing operational support, MTR and CLP Power

² Data from “Hong Kong Energy End-use Data 2024”

will further deepen their partnership by expanding collaboration into new railway projects, energy-efficiency initiatives and renewable energy applications, driving Hong Kong's public transport into a new era of green mobility.

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.

About MTR Corporation

To Keep Cities Moving, MTR makes encounters happen and rendezvous for a more connected tomorrow. As a recognised world-class operator of sustainable rail transport services, we are a leader in safety, reliability, customer service and efficiency.

MTR has extensive end-to-end railway expertise with over 45 years of railway projects experience from design to planning and construction through to commissioning, maintenance and operations. Going beyond railway delivery and operation, MTR also creates and manages dynamic communities around its network through seamless integration of rail, commercial and property development.

With more than 46,000 dedicated staff*, MTR carries over 13 million passenger journeys worldwide every weekday in Hong Kong, Chinese Mainland and beyond. Together, we Go Smart and Go Beyond. For more information about MTR Corporation, please visit www.mtr.com.hk.

*includes our subsidiaries, associates and joint ventures in Hong Kong and worldwide

Photo Captions:

Photo 1



The joint project “CLP x MTR - Decarbonising Railway Transportation” by MTR and CLP Power was recently awarded the “Energy Project of the Year: International” by the Association of Energy Engineers. Mr HK Chan, MTR Corporation Chief of Operating Engineering Service & Innovation (right), and Professor Anthony Lo, CLP Power Director of Customer Success and Sales (left), attended the award presentation ceremony held in Florida, USA.

Photo 2



Beyond the award-winning joint project, both corporations are committed to further deepening their collaboration. Ms Jeny Yeung, MTR Corporation Chief Executive Officer (3rd right), and Mr Joseph Law, CLP Power Managing Director (4th left), recently led their senior management teams—including Mr Wilson Kwong, MTR Corporation Hong Kong Transport Services Director (2nd right), and Professor Anthony Lo, CLP Power Director of Customer Success and Sales (3rd left), in a meeting to explore enhanced collaboration across new railway projects, energy-saving initiatives and the application of renewable energy, with the shared goal of advancing the green transformation of Hong Kong’s public transport system.

- Ends -

Five Major Energy-Saving Upgrades Across MTR Railway Operations

Project	Details
Chiller Upgrade 	Replacement of chillers at stations and depots with energy-efficient variable speed chillers and replacement of split-type air conditioners at some stations, ventilation buildings, and depots with higher-efficiency models. Replacement works have been completed at 47 stations and 4 depots, enhancing system performance and operational reliability. A new phase covering 9 additional stations is currently underway.
LED Lighting Upgrade 	Progressive replacement of station lighting with energy-efficient LED systems across 79 stations, significantly enhancing illumination quality and passenger comfort. Over 90% of the project has been completed, with full completion expected by the end of this year.

Regenerative Braking for Trains 	Implementation of regenerative braking technology across all MTR trains to convert kinetic energy generated during braking into electrical energy, feeding electricity back into the power network for use by other trains.
Project	Details
Introduction of Electric Buses 	Introduction of electric buses equipped with regenerative braking systems to convert braking kinetic energy into electrical energy, optimising battery performance. Roof-mounted solar panels power the ventilation systems, while interiors feature LED lighting. A total of 34 electric buses are currently operating in the MTR bus fleet, serving the New Territories North West.
Expansion of Renewable Energy 	Installation of solar photovoltaic (PV) systems in depots and stations to support renewable energy development. Systems have been installed at 6 stations and 4 depots, some of which received technical support from CLP Power and have been connected to its power grid. Further expansion is planned at suitable sites.