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Lamma Winds Completes Its Mission as HK Electric Continues to Drive Renewable Energy Development

HK Electric has long been committed to advancing renewable energy in Hong Kong. Lamma Winds — the city's first commercial-scale wind turbine commissioned in 2006 — was designed to assess the performance and feasibility of local wind power, while also building operational know-how and raising public awareness of renewable energy. Having reached the end of its 20-year design life in February 2026, the turbine will be dismantled in the near future.

Since commissioning, Lamma Winds has generated more than 16 million units of electricity, reducing approximately 13 million kilograms of carbon emissions. This is equivalent to the carbon dioxide absorbed by around 560,000 trees in a year.

Over the past two decades, HK Electric has actively promoted renewable energy, energy efficiency, and low-carbon living to students and the public through various programmes. These include allocating about HK\$30 million from the Smart Power Education Fund to support educational activities and organise community visits to Lamma Winds and other facilities.

With most specialised components and spare parts for Lamma Winds no longer in production, HK Electric has explored a wide range of potential replacement and upgrade options. However, due to market availability and environment constraints of the existing site, no suitable commercial wind turbine models can be installed at the site on a like-for-like basis. With public safety as the foremost priority, decommissioning of the wind turbine is considered the most prudent and timely course of action.

Beyond exploring wind power, HK Electric has continued to drive renewable energy development in Hong Kong. Since 2010, the Company has installed solar power systems in phases across open areas and building rooftops at Lamma Power Station (LPS). To date, more than 9,000 solar panels have been

deployed at LPS, providing a total generation capacity of 1.47 MW, making it one of Hong Kong's largest solar power installations and a major source of HK Electric's renewable electricity generation.

In addition, HK Electric launched its Feed-in Tariff Scheme in 2019 to encourage customers to install their own renewable energy power systems, including solar panels. As at the end of 2025, 750 customer-owned systems have been successfully connected to HK Electric's grid, with a total installed capacity of over 15 MW, equivalent to the combined capacity of about 20 Lamma Winds, injecting new impetus for the city's renewable energy development. In 2025, the combined capacity of solar panels within HK Electric's supply areas was about 22 times that of the Lamma Winds.

With solar power systems becoming increasingly popular, new-generation solar panels now offer significantly enhanced design specifications and higher energy-conversion efficiency. When the solar installations at LPS are renewed in the future, their electricity output is expected to increase to at least three-fold the current level, further strengthening Hong Kong's overall renewable energy supply.

Looking ahead, HK Electric will continue to support and promote renewable energy and work closely with the Government in exploring the introduction of zero-carbon electricity to our supply areas through regional cooperation. We will continue collaborating with stakeholders to move towards net-zero electricity generation and carbon neutrality by 2050.

