

6. Clean Energy

6.1. Renewable Energy Generation

HK Electric is committed to advancing renewable energy, having developed extensive [solar power systems](#) and a wind turbine with a combined capacity of 3.2 MW.

Lamma Power Station (LPS) commissioned its first solar power system in 2010, with solar photovoltaic modules installed on the ground and rooftops of its buildings. After several capacity expansions and upgrades, the system has become one of the city's largest commercial-scale solar installations, featuring over 8,000 panels and a capacity of 1.4 MW in 2024. In addition, HK Electric has installed around 1,800 solar photovoltaic panels on the rooftops of its premises and substations, contributing an additional 1-MW generation capacity to the grid.

Lamma Winds, a 0.8-MW wind turbine, was commissioned in February 2006. Perched atop Tai Ling on the northern part of Lamma Island, it is Hong Kong's first grid-connected wind power station.

6.2. Connection of Customer RE Systems to our Grid

HK Electric launched the [Feed-in Tariff Scheme](#) in 2019 to encourage customers to install RE systems and connect them to our electricity grid (See Section 9.1. Smart Power Services for details).

To facilitate this, guidance and support have been provided to customers to ensure that the associated electrical installations of the proposed RE systems comply with our Supply Rules and meet the technical and safety requirements stipulated by the Government.

6.3. Offshore Liquefied Natural Gas Terminal

The [offshore Liquefied Natural Gas \(LNG\) terminal](#), jointly developed by HK Electric and CLP Power, commenced operations in July 2023. This development is in response to Hong Kong's Climate Action Plan 2050 and the increasing reliance on natural gas for power generation.

The Terminal adopts the Floating Storage and Regasification Unit (FSRU) technology with the world's largest FSRU vessel, *Bahinia Spirit*. It has an LNG storage capacity of 263,000 cubic metres, and is moored at the jetty of the terminal to receive, store, and regasify LNG before the gas is sent to HK Electric's LPS and CLP's plant via subsea pipelines.

The terminal provides local power companies with direct access to the international LNG markets and gives a long-term alternative fuel source to meet Hong Kong's power generation demand. It also strengthens the companies' supply reliability and ability to source competitively-priced gas for the benefit of customers and Hong Kong as a whole. The terminal received 11 LNG cargoes in 2024.

