

8. Renewable Energy

8.1. Lamma Winds and Solar Power System

Committed to developing renewable energy (“RE”), HK Electric has built the city’s first commercial scale wind turbine, “Lamma Winds” and an extensive solar power system.

[Lamma Winds](#) was commissioned in February 2006. Perched atop Tai Ling on the northern part of Lamma Island, it remains Hong Kong’s first and only grid-connected wind power station and is now a very popular destination for visitors to Lamma Island.



Commissioned in 2010, the [solar power system](#) is located inside Lamma Power Station and is one of the largest in Hong Kong. The one-megawatt system comprises more than 8,600 thin-film photovoltaic modules installed on the rooftops and grounds of the station buildings. The two RE systems combined produced about 1.88 million units of green electricity in 2017, avoiding 1,570 tonnes of carbon dioxide emissions, equivalent to the planting of 68,000 trees.

8.2. Offshore Wind Farm Project

HK Electric is proposing to build a 100 MW offshore wind farm at about 3.5 km southwest off Lamma Island. We have set up a wind monitoring station on site to collect meteorological and oceanographic data necessary for the wind farm’s detailed design and initial analysis has confirmed its feasibility. The construction of the wind farm is contingent upon government approval. It is expected to produce enough energy for 50,000 families, representing about 1-2% of HK Electric’s annual electricity output upon completion.

8.3. Customers’ Connections to our Grid

To encourage and support efforts in using RE in the community, we welcome customers to connect their RE power systems to our electricity grid. To do so, the proposed RE systems must comply with the relevant technical and safety requirements as stipulated in the Company’s Supply Rules and relevant technical guidelines issued by the Government.

As at end 2017, more than 70 small scale RE installations, mainly from non-residential customers such as government buildings and schools, have been connected to our power grid.

