

# 1. About HK Electric

## 1.1. Company Overview

Lighting up the homes and businesses of Hong Kong since 1890, HK Electric has a long record of providing a safe and highly reliable electricity supply at a reasonable price to customers on Hong Kong and Lamma islands. Since 1997, its power supply reliability rating has been maintained at over 99.999% – one of the best records in the world.

The Company's operations cover power generation, transmission and distribution, supply and customer service – all regulated by the HKSAR Government through a Scheme of Control Agreement ("SCA"). Thanks to prudent investment and the use of the most appropriate technologies, HK Electric has been instrumental in sustaining the city's economic development and enabling a good quality of life for its citizens. As part of its ongoing efforts to reduce emissions, HK Electric has been increasing the use of natural gas to generate electricity.



## 1.2. Facts and Figures (as at 31 December 2019)

### Generation Capacity at Lamma Power Station

**3,237 MW**

- 6 coal-fired units
- 2 gas-fired combined-cycle units
- 5 oil-fired gas turbine units
- 1 solar power system
- 1 wind turbine



### Cable Length

**6,536 km**

Mainly underground and submarine cables



### Cable Tunnels

**6**

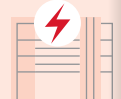
- Wah Fu-Bowen
- Tin Wan-Wah Fu
- Yung Shue Wan
- Nam Fung-Parker
- Cyberport-Wah Fu
- Pak Kok Tsui



### Substations

**3,971**

Switching stations: 24  
Zone substations: 27  
Customer substations: 3,920

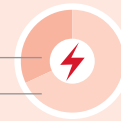


### Fuel Mix & Source

**Natural gas (~30%)**

**Coal (~70%)**

Main Gas Source: Australia, Qatar  
Coal Source: Indonesia, Russia



### Electricity Sales

**10.519 billion units**

Commercial: ~73.7%  
Residential: ~23.5%  
Industrial: ~2.8%



### Carbon Emissions per Electricity Unit Sold

**0.81 kg/kWh**

Figure refers to CO<sub>2</sub>e



### Customers

**581,000**

Residential: ~80.5%  
Commercial: ~18.7%  
Industrial: ~0.8%



### Supply Reliability

**>99.999%**

Maintained since 1997



### Unplanned Customers Minutes Lost

**< 1 minute on average**

Maintained since 2009



### Approved Capital Investment under 2019-2023 Development Plan

**\$26.6 billion**

Power generation system, transmission and distribution system, customer and corporate services development



### Permanent Staff

**1,770**

Technical: ~61%  
Supporting: ~39%

