

## Clean Air Charter

We are proactive and committed to energy saving. We continue adopting various energy saving measures to support the clean-air initiatives and help reduce emissions.



### Energy Saving in Public Lighting

We have been implementing various measures to further enhance the energy efficiency of public lighting in Hong Kong. We launched the large scale Light Emitting Diode (LED) public lighting replacement programme in 2017. As compared with conventional High Pressure Sodium lights, LED lights are of more energy-saving, durable and environmentally friendly. With LED light's higher colour rendering, actual colour of surrounding objects can be revealed.

In 2018, we have replaced about 7,800 lighting points. In order to speed up the replacement of LED lights, we plan to replace 9,300 lighting points with LED lights on average each year after 2018. With this aggressive programme, it is expected that by 2029 around 13.1 million kWh of electricity consumption will be saved each year, corresponding to a reduction of 12,100 tons of greenhouse gas emissions.

In 2018, we also continued to enhance the operational efficiency of public lighting. As compared to 2017, despite an increase of about 1,500 lighting points (0.62%) in public lighting in 2018, the corresponding annual electricity consumption dropped by 1.51%.

We will continue to monitor the development of LED and other lighting technologies and to optimize the design standards as well as operational and maintenance works of public lighting systems. We aim to provide safe, high quality, reliable and sustainable public lighting services to the public.



Peng Chau -  
Conventional High Pressure Sodium lights



Peng Chau -  
After replacement by LED lights

## Energy Saving in Office

Electricity consumption in 2018 with corresponding indirect gas emission figures:

Offices <sup>1</sup>	Electricity(kWh) [comparison with 2017]	Indirect gas emissions (kg)		
		SO <sub>2</sub>	NO <sub>x</sub>	RSP
Ho Man Tin Government Offices	952,459 [↓1.72%]	1,819.20	1104.85	57.15
North Point Government Offices	183,791 [↑2.30%]	351.04	213.20	11.03
Trade and Industry Tower	631,782 [↓1.14%]	1,206.70	732.87	37.91
Nan Fung Commercial Centre	433,134 [↑2.78%]	827.29	502.44	25.99
Grand City Plaza	26,324 [↓3.71%]	50.28	30.54	1.58
Cheung Sha Wan Plaza	11,585 [↑1.30%]	22.13	13.44	0.70
MG Tower	21,975 [↑6.08%]	41.97	25.49	1.32
The Harbourfront Tower 1 <sup>2</sup>	18,989	36.27	22.03	1.14
The Harbourfront Tower 2 <sup>2</sup>	11,582	22.12	13.44	0.69

### Energy Saving Measures

The following measures have been promulgated to enhance energy saving in offices:

- appoint Energy Wardens in every office/division to monitor the usage of light and to keep the illumination level to the acceptable minimum level;
- review the illumination level arising from the change of room use;
- maintain air-conditioning not lower than 25.5°C in hot seasons;
- switch off lights during lunch or when staff are away for long hours;
- switch off computer equipment and electric appliances when not in use;
- encourage the use of staircase for inter-floor traffic;
- use automatic low flow water taps in toilets; and
- monitor the electricity consumption of offices of the Highways Department with individual electricity meters installed.

## Contribution to Reducing Emission

### Environmentally Friendly Vehicles

We have been striving to reduce greenhouse gas emission of vehicles through the use of environmentally friendly vehicles and promulgation of internal guidelines to encourage motor drivers to adopt green driving habits. In 2018, we replaced our first electric salon car with a more advanced model. The adoption of electric vehicles had greatly reduced greenhouse gas emission. In addition to

<sup>1</sup> Only offices with individual electricity metres installed are included.

<sup>2</sup> Two new sub-offices set up in February and July 2018.

the electric saloon car in our vehicle fleet, we also adopted one hybrid saloon car which consumed less fuel than petrol cars.

### Special Measures to Cope With the Air Quality

To increase staff awareness on air quality, we issued email reminders to our staff when the Air Quality Health Index reached or was forecasted to reach the “very high” or “serious” health risk categories. A set of precautionary measures for reference by front-line staff and their supervisors was provided with the reminders. The measures include conducting risk assessment of outdoor work for workers performing heavy manual works and measures to reduce outdoor physical exertion and time of staying outdoor, especially in areas with heavy traffic.

### Indoor Air Quality Certification

Indoor air quality measurement was conducted by the Electrical and Mechanical Services Department in December 2018. Ho Man Tin Government Offices were awarded the “Good” Class Indoor Air Quality Certificate for 2018. The indoor air quality of Ho Man Tin Government Offices has fully complied with the “Good” Class of the Indoor Air Quality Objectives since 2003. The indoor air quality of our offices at Cheung Sha Wan Government Offices, North Point Government Offices, Nan Fung Commercial Centre and Trade and Industry Tower have also attained the “Excellent” or “Good” Class.