Key Statistics and Targets

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Status of Targets Set at 2018

Environment

	Status
Collect and reuse at least 100,000 m³ of plant effluent and rain water at Lamma Power Station in 2018.	Achieved
Plant diverse species of native trees or shrubs at Lamma Power Station in 2018 to support biodiversity.	Achieved
Reduce food waste at the canteen of Lamma Power Station by 2% in 2018 as compared to 2017.	Achieved
Reduce vehicle fleet's fuel usage in 2018 as compared to 2017.	Achieved
Increase EV mileage in 2018 as compared to 2017.	Achieved
Conduct at least 50 energy audits for non-residential customers in 2018 to help them identify energy saving opportunities.	Achieved
Obtain at least one Wastewi$e Certificate and one Energywi$e Certificate under the Hong Kong Green Organisation Certification Scheme in 2018.	Achieved
Commission two new gas-fired generating units, L10 and L11, at Lamma Power Station by 2020 and 2022 respectively.	In progress
Reduce CO_2e per electricity unit sold to not higher than 0.67 kg/kWh in 2022 from 0.93 kg/kWh in 2005 (just before natural gas was introduced at Lamma Power Station).	In progress
Reduce total electricity consumption of seven main buildings at Lamma Power Station by 10% in 2025 as compared to the baseline figure in 2013.	In progress

Health & Safety

	Status
Achieve a reduction in the Lost Time Injury Frequency Rate (LTIFR) in 2018 as compared to the average over the previous three years.	Achieved
Achieve a reduction in the Lost Time Injury Severity Rate (LTISR) in 2018 as compared to the average over the previous three years.	Achieved
Obtain at least three Excellent Class Indoor Air Quality (IAQ) Certificates under the Government's IAQ Certification Scheme in 2018.	Achieved
Organise a series of health talks and interest classes for employees in 2018.	Achieved

Partners & Community

	Status
Fulfil all our customer service pledges, embracing supply reliability, speediness of provision of supply and other customer services, including emergency services, in 2018.	Achieved
Launch a promotion programme on electronic billing and autopay in 2018 to encourage more customers to switch to electronic services.	Achieved
Further expand the Plant Ownership Programme at Lamma Power Station by adding three new projects in 2018 to enhance plant reliability and availability, and to facilitate development of young engineers.	Achieved
Organise more than 210 corporate visits for various stakeholders in 2018.	Achieved
Extend care to more than 2,100 elders under our "CAREnJOY for the Elderly" programme in 2018.	Achieved
Enhance the necessary electricity infrastructure for MTR lines in 2018 to support economic and social development of local communities.	Achieved
Develop a fraud risk assessment framework and facilitate divisions/departments to perform fraud risk assessments in 2018/2019 to identify assets or areas that are prone to fraud risks and enhance employee awareness of fraud risks.	In progress
Soft launch the Smart Power Gallery in 2019 to educate the general public on the smart use of electricity.	Achieved

Summary of Statistics

Environment

	2018	2017	2016
Fuel Consumed (TJ) [1]			
Gas	30,011	30,914	31,983
Coal & oil [2]	80,405	79,258	80,012
Licence Compliance			
Percentage of Compliance (%)	100	100	100
Air Emissions			
SO_2 (kT) [1]	2.87	2.21	2.75
NO_x (kT) [1]	7.79	8.14	8.68
RSP (kT) [1]	0.20	0.20	0.21
CO_2 (million T) [1]	8.37	8.36	8.50
CO_2e (million T) [3]	8.41	8.41	8.54
CO_2e per electricity unit sold (kg/kWh) [3]	0.80	0.79	0.79
Material Non-Hazardous Wastes (kT) [1, 4]			
Ash produced	235	229	237
Ash collected for industrial uses	237	235	238
Gypsum produced/collected for industrial uses	69	61	66
Material Hazardous Wastes [5]			
Waste oil collected for recycle (litre)	3,000	18,400	42,600
Waste oil collected for disposal (litre)	88,687	79,160	38,000
Other material hazardous wastes measured by volume in trip tickets for recycle (litre)	0	0	–
Other material hazardous wastes measured by volume in trip tickets for disposal (litre)	3,400	11,240	–
Other material hazardous wastes measured by weight in trip tickets for recycle (kg)	850	22,212	–
Other material hazardous wastes measured by weight in trip tickets for disposal (kg)	17,459	25,853	–
Water Consumption/Discharge [1]			
Marine water withdrawal & discharge (million m³)	2,031	1,926	2,160
Town water consumption (thousand m³) [6]	2,187	2,375	2,397
Wastewater discharge (thousand m³)	148	160	138
Noise Abatement Notice			
Number of notices received	0	0	0
Certificate Accreditation			
Number of ISO 14001 certificates	3	3	3
Number of ISO 50001 certificates	1	1	1

Operations

	2018	2017	2016
Customer Service			
Number of customers (thousands)	579	577	575
Average rating of customer satisfaction level (maximum mark for each index is 5.0)	4.6	4.6	4.5
Number of pledged service standards	18	18	18
Percentage achieved (%)	100	100	100
Installed Capacity (MW) [1]			
Gas	680	680	680
Coal & oil [2]	2,555	2,805	3,055
Renewable energy	1.8	1.8	1.8
Performance			
Electricity sold (millions of kWh)	10,537	10,615	10,792
Plant availability (%)	90.7	87.1	85.6
Thermal efficiency (%)	35.6	35.9	35.9
Transmission and distribution losses (%)	3.4	3.3	3.3
Electricity Supply Reliability			
Supply reliability rating (%)	>99.999	>99.999	>99.999
Unplanned customer minutes lost (minutes)	0.6	0.5	0.7
Certificate Accreditation			
Number of ISO 9001 certificates	8	9	9
Number of ISO 55001 certificates	2	2	2

Health & Safety

	2018	2017	2016
Number of fatalities	0	0	0
Number of lost time injuries	1	3	4
Lost Time Injury Frequency Rate (LTIFR) (per 200,000 employee-hours)	0.05	0.16	0.20
Number of days lost/charged (no. of employee-days)	1	168	35
Lost Time Injury Severity Rate (LTISR) (per 200,000 employee-hours)	0.05	8.77	1.75
Longest period without a lost time injury (no. of days)	315	150	117
Number of reported traffic accidents (no. of cases)	7	9	11
Traffic Accident Frequency Rate (TAFR) (no. of cases per million km travelled)	3.8	4.8	5.7
Number of ISO 45001/OHSAS 18001 certificates	3	3	3

Notes:

[1] For power generation only.

[2] Fuel oil is mainly used for starting and flame stabilisation of coal-fired units and hence, specific breakdown for fuel oil is not given.

[3] The methodology used for calculation is drawn from Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories, taking into account greenhouse gas emissions generated from the processes of power generation, transmission and distribution.

[4] HK Electric's material non-hazardous wastes are ash and gypsum.

[5] HK Electric's material hazardous wastes are those wastes required to be managed under the mandatory trip ticket systems. These wastes were collected and treated by licensed waste collectors and facilities.

[6] Town water is provided by the Water Supplies Department of the HKSAR Government.

[7] For economic/financial data, please refer to our Annual Report.

Looking Ahead

We understand that, as a power utility in Hong Kong, we play a crucial role in supporting the city's economic and social developments. As a responsible business, we have a duty of care towards the environment, the community, our employees and other stakeholders. To realise these commitments, we regularly review our performance and set specific goals for the future. Outlined below are the targets we set in the areas of Environment, Health and Safety, and Partners and Community for 2019 and beyond.

Environment

- Collect and reuse at least 100,000 m^3 of plant effluent and rain water at Lamma Power Station in 2019.

- Plant diverse species of native trees or shrubs at Lamma Power Station in 2019 to support biodiversity.

- Reduce food waste at the canteen of Lamma Power Station by 1% in 2019 as compared to 2018.

- Reduce vehicle fleet's fuel usage in 2019 as compared to 2018

- Increase EV mileage in 2019 as compared to 2018.

- Obtain at least one Wastewi$e Certificate and one Energywi$e Certificate under the Hong Kong Green Organisation Certification Scheme in 2019.

- Commission three new gas-fired generating units, L10, L11 and L12, at Lamma Power Station by 2020, 2022 and 2023 respectively.

- Reduce CO_2e per electricity unit sold to not higher than 0.6 kg/kWh in 2023 from 0.93 kg/kWh in 2005 (just before natural gas was introduced at Lamma Power Station).

- Reduce total electricity consumption of seven main buildings at Lamma Power Station by 10% in 2025 as compared to the baseline figure in 2013.

Health & Safety

- Achieve a reduction in the Lost Time Injury Frequency Rate (LTIFR) in 2019 as compared to the average over the previous three years.

- Achieve a reduction in the Lost Time Injury Severity Rate (LTISR) in 2019 as compared to the average over the previous three years.

- Obtain at least three Excellent Class Indoor Air Quality (IAQ) Certificates under the Government's IAQ Certification Scheme in 2019.

- Organise a series of health talks, physical exercises and interest classes to enable our employees to maintain a healthy and balanced lifestyle in 2019.

Partners & Community

- Fulfil all our customer service pledges, embracing supply reliability, speediness of provision of supply and other customer services, including emergency services, in 2019.

- Complete 200 audits for Smart Power Energy Audit in 2019, particularly for NGOs, schools, SMEs.

- Approve 100 buildings for Smart Power Building Fund in 2019, including those from residential buildings, NGO premises and schools.

- Launch a promotion programme on electronic billing/autopay in 2019 to encourage more customers to go green.

- Further expand the Plant Ownership Programme at Lamma Power Station by adding at least one new project in 2019 to enhance plant reliability and availability, and to facilitate development of young engineers.

- Organise more than 300 corporate visits for various stakeholders in 2019.

- Reach out to 100,000 participants under the Happy Green Campaign in 2019.

- Enhance the necessary electricity infrastructure for the MTR Shatin to Central Link (North South line (Hong Kong Section)) by 2020 to support economic and social development of local communities.

- Develop a fraud risk assessment framework and facilitate divisions/departments to perform fraud risk assessments in 2019 to identify assets or areas that are prone to fraud risks and enhance employee awareness of fraud risks.