

HKEI's Sustainability Report 2023

Sustainability Accounting Standards Board (SASB) Content Index

Electric Utilities & Power Generators

Cross-Reference/Explanation

WEB – our website;

SR – our Sustainability Report;

AR – our Annual Report;

INFO – direct/supplementary information;

Figures may not add up to the total due to rounding.

Requirements	Disclosures	
Greenhouse Gas Emissions & Energy Resource Planning		
IF-EU-240	IF-EU-110a.1	(1) Gross global Scope 1 emissions, Percentage covered under (2) emissions-limiting regulations, and (3) emissions-reporting regulations
		SR: Sharing our Planet – Climate Action and Clean Air; Key Statistics INFO: Percentage of Scope 1 emissions covered under (2) emissions-limiting regulations and (3) emissions reporting regulations is currently not reported.
	IF-EU-110a.2	Greenhouse gas (GHG) emissions associated with power deliveries
		SR: Sharing our Planet – Climate Action and Clean Air; Key Statistics
	IF-EU-110a.3	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets
		WEB: Sustainability Policy ; Environmental Policy SR: Sharing our Planet – Climate Action and Clean Air; Climate-related Disclosures
Air Quality		
IF-EU-120	IF-EU-120a.1	Air emissions of the following pollutants: (1) NO _x (excluding N ₂ O), (2) SO _x , (3) particulate matter (PM ₁₀), (4) lead (Pb), and (5) mercury (Hg); percentage of each in or near areas of dense population
		SR: Key Statistics INFO: Lead emissions are not material for the power industry and are not reported.
Water Management		
IF-EU-140	IF-EU-140a.1	(1) Total water withdrawn, (2) total water consumed; percentage of each in regions with High or Extremely High Baseline Water Stress
		SR: Sharing our Planet – Responsible Environmental Management; Key Statistics INFO: Based on the Water Resources Institute (WRI) Aqueduct Risk Atlas, our business operation is located in regions with low to medium baseline water stress levels. Thus, the percentage of water withdrawal/consumption in regions with High or Extremely High Baseline Water Stress is zero.

IF-EU-140a.2	Number of incidents of non-compliance associated with water quantity and/or quality permits, standards, and regulations	SR: Sharing our Planet – Responsible Environmental Management; Key Statistics INFO: No incidents of non-compliance associated with water quantity and/or quality permits, standards or regulations were recorded in 2023.
IF-EU-140a.3	Description of water management risks and discussion of strategies and practices to mitigate those risks	SR: Our Business and Approach to Sustainability – Sustainable Development Goals and Targets; Sharing our Planet – Responsible Environmental Management; Working with Partners – Managing our Supply Chain; Key Statistics
Coal Ash Management		
IF-EU-150	IF-EU-150a.1	Amount of coal combustion residuals (CCR) generated, percentage recycled SR: Key Statistics
	IF-EU-150a.2	Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment INFO: Currently not reported.
Energy Affordability		
IF-EU-240	IF-EU-240a.1	Average retail electric rate for (1) residential, (2) commercial, and (3) industrial customers INFO: Currently not reported.
	IF-EU-240a.2	Typical monthly electric bill for residential customers for (1) 500 kWh and (2) 1,000 kWh of electricity delivered per month INFO: Currently not reported.
	IF-EU-240a.3	Number of residential customer electric disconnections for non-payment, percentage reconnected within 30 days INFO: Sufficient notice would be communicated to customers with ample time to settle the non-payment, before executing the disconnection. In fact, the no. of non-payment cases which led to disconnection was very small as compared to the customer base of more than 589,000 accounts. In 2023, there were 630 residential accounts (0.1%) disconnected due to non-payment while we have acceded to 1,405 accounts for payment deferral from residential customers. In accordance with our service pledge, supply will be re-connected on the same day as payment is received. In addition, we provide advice on energy efficiency to customers, and are willing to listen to customers having difficulties with bill settlement to see what and how we can help.
	IF-EU-240a.4	Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory WEB: Concessionary Tariff Schemes SR: Serving Hong Kong – World-class Power Supply

Workforce Health & Safety												
IF-EU-320	IF-EU-320a.1	(1) Total recordable incident rate (TRIR), (2) fatality rate, and (3) near miss frequency rate (NMFR)	SR: Key Statistics									
			INFO:									
			<table><tr><td></td><td>Employees</td><td>Contractors</td></tr><tr><td>Total recordable incident rate (TRIR)</td><td>0.34</td><td>0.76</td></tr><tr><td>Fatality rate</td><td>0</td><td>0</td></tr></table>		Employees	Contractors	Total recordable incident rate (TRIR)	0.34	0.76	Fatality rate	0	0
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Total recordable incident rate (TRIR)	0.34	0.76										
Fatality rate	0	0										
Note: Number of near miss cases (employee and contractors) is 49. Near miss frequency rate is currently not reported.												
End-Use Efficiency & Demand												
IF-EU-420	IF-EU-420a.2	Percentage of electric load served by smart grid technology	INFO: Currently not reported.									
	IF-EU-420a.3	Customer electricity savings from efficiency measures, by market	INFO: Currently not reported.									
Nuclear Safety & Emergency Management												
IF-EU-540	IF-EU-540a.1	Total number of nuclear power units, broken down by U.S. Nuclear Regulatory Commission (NRC) Action Matrix Column	INFO: Not applicable									
	IF-EU-540a.2	Description of efforts to manage nuclear safety and emergency preparedness	INFO: Not applicable									
Grid Resiliency												
IF-EU-550	IF-EU-550a.1	Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations	SR: Serving Hong Kong – World-Class Power Supply									
	IF-EU-550a.2	(1) System Average Interruption Duration Index (SAIDI), (2) System Average Interruption Frequency Index (SAIFI), and (3) Customer Average Interruption Duration Index (CAIDI), inclusive of major event days	INFO: <table><tr><td>System Average Interruption Duration Index (SAIDI)</td><td>0.057</td></tr><tr><td>System Average Interruption Frequency Index (SAIFI)</td><td>0.103</td></tr><tr><td>Customer Average Interruption Duration Index (CAIDI)</td><td>0.554</td></tr></table>	System Average Interruption Duration Index (SAIDI)	0.057	System Average Interruption Frequency Index (SAIFI)	0.103	Customer Average Interruption Duration Index (CAIDI)	0.554			
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Activity Metrics												
IF-EU-000	IF-EU-000.A	Number of: (1) residential, (2) commercial, and (3) industrial customers served	SR: Key Statistics									

IF-EU-000.B	Total electricity delivered to: (1) residential, (2) commercial, (3) industrial, (4) all other retail customers, and (5) wholesale customers	<div>INFO:</div> <table><tr><th>Type of Customers</th><th>Amount of Total Electricity Delivered (GWh)</th></tr><tr><td>Residential</td><td>2,384</td></tr><tr><td>Commercial</td><td>7,369</td></tr><tr><td>Industrial</td><td>288</td></tr></table> <div>Note: Items (4) all other retail customers, and (5) wholesale customers are currently not reported.</div>	Type of Customers	Amount of Total Electricity Delivered (GWh)	Residential	2,384	Commercial	7,369	Industrial	288														
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Residential	2,384																							
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IF-EU-000.C	Length of transmission and distribution lines	<div>INFO:</div> <table><tr><th colspan="4">Circuit length (km)</th></tr><tr><th colspan="2">Above/Underground breakdown</th><th colspan="2">Voltage breakdown</th></tr><tr><td rowspan="2">Above ground</td><td rowspan="2">38</td><td>Transmission (275 kV & 132 kV)</td><td>446</td></tr><tr><td>Distribution (22 kV & 11 kV)</td><td>4,281</td></tr><tr><td>Underground</td><td>6,931</td><td>Low voltage</td><td>2,241</td></tr><tr><td>Total</td><td colspan="3">6,969</td></tr></table> <div>Notes: <div>1. Circuit length is different from conductor length in that one or more conductors may be employed to form a circuit. For instance, a 1-km long three-phase grounded LV interconnection between two points which is built with one conductor per phase plus one neutral conductor has a total of 4 km of conductor; however, it is only a 1-km long circuit. Multiple, independently-switched circuits, e.g. feeders, may be attached on the same structures or located in a common trench along a route. In such instances, the length of each circuit will be counted.</div><div>2. The length of underground circuit included the length of submarine circuits.</div><div>3. Since the numbers are rounded, the total may not reflect the sum of the given figures.</div></div>	Circuit length (km)				Above/Underground breakdown		Voltage breakdown		Above ground	38	Transmission (275 kV & 132 kV)	446	Distribution (22 kV & 11 kV)	4,281	Underground	6,931	Low voltage	2,241	Total	6,969		
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IF-EU-000.D	Total electricity generated, percentage by major energy source, percentage in regulated markets	<div>SR: Key Statistics</div> <div>INFO:</div> <table><tr><th>Major Energy Source</th><th>Percentage (%)</th></tr><tr><td>Coal and oil</td><td>43.6</td></tr><tr><td>Natural gas</td><td>56.3</td></tr><tr><td>Other energy sources (Lamma Winds, Solar Power System at LPS, and HK Electric's distributed Renewable Energy Power System (REPS) and Feed-in Tariff (FIT) REPS)</td><td>0.1</td></tr></table>	Major Energy Source	Percentage (%)	Coal and oil	43.6	Natural gas	56.3	Other energy sources (Lamma Winds, Solar Power System at LPS, and HK Electric's distributed Renewable Energy Power System (REPS) and Feed-in Tariff (FIT) REPS)	0.1														
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IF-EU-000.E	Total wholesale electricity purchased	<div>INFO:</div> <div>HK Electric purchased about 8.7 GWh of RE produced in 2023 under the Feed-in Tariff Scheme to support Renewable Energy Certificates inventory for interested customers.</div>																						