

Penny's Bay

- Diesel-fired power station (backup facility providing quick-start support)
- 300MW (3 x 100MW)
- Plant commissioned in 1992
- Shareholding of 70% with operational control by CLP

Parameter	Unit	2017	2016	2015	2014	2013
1. Operation						
Electricity sent out	GWh	0.5	1.0	0.6	1.0	0.1
Oil consumed	TJ	10	18	11	16	5
Thermal efficiency	%	18.0	21.1	19.0	21.5	10.1
Equivalent availability factor (EAF)	%	96.2	98.9	100.0	95.7	100
2. Air Emissions						
CO ₂ e (Scope 1) ⁽¹⁾	kT	0.9	1.3	1.7	1.6	0.3
CO ₂ (Scope 1) ⁽¹⁾	kT	0.8	1.2	0.8	1.1	0.3
SO ₂	kT	0.000004	0.000005	0.000004	0.000008	0.000002
NO _x	kT	0.0010	0.0018	0.0012	0.0017	0.0005
Particulate (Total)	kT	0.00002	0.00003	0.00002	0.00003	0.00001
Particulate (Respirable)	kT	0.00002	0.00003	0.00002	0.00003	0.00001
3. Water						
Water Withdrawal	Mm ³	0.0005	0.0006	0.0007	0.0008	0.0007
from marine water resources ⁽²⁾	Mm ³	-	-	-	-	-
from freshwater resources	Mm ³	0	0.0001	0 ⁽³⁾	0 ⁽³⁾	0 ⁽³⁾
from municipal sources	Mm ³	0.0005	0.0005	0.0007	0.0008	0.0007
Water Discharged	Mm ³	0	0	0	0	0
treated wastewater discharged to sea	Mm ³	0	0	0	0	0
treated wastewater discharged to freshwater bodies ⁽²⁾	Mm ³	-	-	-	-	-
wastewater discharged to sewerage ⁽⁴⁾	Mm ³	-	-	-	-	-
Water Reused / Recycled	Mm ³	0	0	0	0	0
4. Environmental Compliance						
Regulatory non-compliances resulting in fines or prosecutions	No.	0	0	0	0	0
Licence limit exceedances & other non-compliances	No.	0	0	0	0	0

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5. Waste Management⁽⁵⁾						
Hazardous waste						
produced	T (solid) / kl (liquid)	0 / 8	0 / 1	0 / 23	0 / 8	-
recycled	T (solid) / kl (liquid)	0 / 7	0 / 0	0 / 23	0 / 8	-
disposed	T (solid) / kl (liquid)	0 / 0	0 / 1	0 / 0	0 / 0	-
Non-hazardous waste						
produced	T (solid) / kl (liquid)	7 / 0	10 / 0	30 / 0	37 / 0	12 / 0
recycled	T (solid) / kl (liquid)	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
disposed	T (solid) / kl (liquid)	7 / 0	10 / 0	30 / 0	32 / 0	12 / 0
6. Safety⁽⁶⁾						
Employee						
Fatalities	No.	0	0	0	0	0
Days lost / charged	Days	0	0	0	0	0
Lost Time Injuries ⁽⁷⁾	Cases	0	0	0	0	-
Occupational Disease ⁽⁷⁾	Cases	0	0	0	0	-
Total Work Hours ⁽⁷⁾	Manhours	1,968,165	1,870,155	1,815,968	1,858,816	-
Contractor						
Fatalities ⁽⁷⁾	No.	1	0	0	0	-
Lost Time Injuries ⁽⁷⁾	Cases	2	0	2	0	-
Total Work Hours ⁽⁷⁾	Manhours	4,966,405	4,358,061	3,980,288	4,343,822	-

Notes:

⁽¹⁾ Scope 2 emissions are included in Scope 1 as electricity consumed was generated within CLP Power Hong Kong's own organisational boundary.

⁽²⁾ Not applicable to Penny's Bay.

⁽³⁾ The quantity of water withdrawal from freshwater resources is negligible.

⁽⁴⁾ Wastewater is collected by licenced collector to government sewage treatment facility for treatment and no measurement data is available.

⁽⁵⁾ Waste categorised in accordance with local regulations. Contractor waste is included. Waste arising from Penny's Bay Power Station is reported separately from Black Point Power Station (hazardous waste since 2014, and non-hazardous waste since 2013).

⁽⁶⁾ All safety data are combined for the three power stations under Castle Peak Power Company (CAPCO).

⁽⁷⁾ Started reporting in 2014.

2017 data have been independently reviewed by the Hong Kong Quality Assurance Agency (HKQAA).