

Black Point

- Gas-fired power station
- 2,525MW (1 x 337.5MW & 7 x 312.5MW)
- Plant commissioned between 1996 and 2006
- Shareholding of 70% with operational control by CLP

Parameter	Unit	2017	2016	2015	2014	2013
1. Operation						
Electricity sent out	GWh	9,550	9,175	8,899	5,315	5,675
Gas consumed	TJ	75,747	73,014	71,364	42,433	45,141
Oil consumed	TJ	76	227	117	148	146
Thermal efficiency	%	45.3	45.1	44.8	44.9	45.1
Equivalent availability factor (EAF)	%	86.2	81.4	84.8	86.7	86.1
2. Air Emissions						
CO ₂ e (Scope 1) ⁽¹⁾	kT	3,923	3,761	3,688	2,295	2,455
CO ₂ (Scope 1) ⁽¹⁾	kT	3,906	3,745	3,673	2,285	2,447
SO ₂	kT	0.08	0.05	0.05	0.07	0.08
NO _x	kT	1.4	1.6	1.5	0.9	1.1
Particulate (Total)	kT	0.06	0.06	0.06	0.03	0.04
Particulate (Respirable)	kT	0.06	0.06	0.06	0.03	0.04
3. Water						
Water Withdrawal	Mm ³	923.7	934.9	931.2	612.5	668.3
from marine water resources	Mm ³	923.4	934.6	930.9	612.3	668.1
from freshwater resources ⁽²⁾	Mm ³	-	-	-	-	-
from municipal sources	Mm ³	0.3	0.3	0.3	0.2	0.3
Water Discharged	Mm ³	923.5	934.7	931.0	612.4	668.2
cooling water discharged to sea	Mm ³	923.4	934.6	930.9	612.3	668.1
treated wastewater discharged to sea	Mm ³	0.1	0.1	0.1	0.1	0.1
treated wastewater discharged to freshwater bodies ⁽²⁾	Mm ³	-	-	-	-	-
wastewater discharged to sewerage ⁽³⁾	Mm ³	-	-	-	-	-
Water Reused / Recycled ⁽⁴⁾	Mm ³	-	-	-	-	-
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)	126 / 128	31 / 256	76 / 97	22 / 967	19 / 92
recycled	T (solid) / kl (liquid)	110 / 100	11 / 224	58 / 65	0.3 / 141	0.1 / 80
disposed	T (solid) / kl (liquid)	16 / 28	20 / 32	18 / 33	22 / 826	19 / 12
Non-hazardous waste						
produced	T (solid) / kl (liquid)	12,025 / 0	895 / 0	3,438 / 0	12,509 / 0	1,566 / 0
recycled	T (solid) / kl (liquid)	360 / 0	233 / 0	485 / 0	715 / 0	682 / 0
disposed	T (solid) / kl (liquid)	11,665 / 0	661 / 0	2,953 / 0	11,794 / 0	884 / 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 Black Point.

⁽³⁾ Wastewater is mainly treated on site and discharged to sea. Small amount of wastewater from onsite mobile toilet are not routinely collected.

⁽⁴⁾ Some treated wastewater is reused on site but measurement data are not routinely collected.

⁽⁵⁾ Waste categorised in accordance with local regulations. Contractor waste is included. Quantity includes waste arising from Penny's Bay Power Station (Except 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).