

Asset Performance Statistics

Fangchenggang I

- Coal-fired power station
- 1,260MW (2 x 630MW)
- Plant commissioned between 2007 and 2008
- Shareholding of 70% with operational control by CLP



Parameter	Unit	2016	2015	2014	2013	2012
1. Operation						
Electricity sold	GWh	2,787	2,933	4,543	5,792	5,704
Coal consumed	TJ	28,125	29,748	43,282	56,007	55,046
Oil consumed	TJ	0	1	3	0	3
Thermal efficiency	%	35.7	35.5	37.8	39.5	39.8
Equivalent availability factor (EAF) ⁽¹⁾	%	97.0	88.9	81.6	87.4	89.6
2. Air Emissions						
CO ₂ e (Scope 1 & 2)	kT	2,542	2,733	4,065	5,332	4,986
CO ₂ (Scope 1 & 2)	kT	2,529	2,719	4,044	5,305	4,961
SO ₂	kT	1.7	2.5	3.5	4.8	4.6
NO _x	kT	0.7	0.7	1.0	4.8	5.9
Particulate (Total)	kT	0.1	0.2	0.2	0.4	0.4
3. Water						
Water Withdrawal	Mm ³	354.3	462.5	597.0	743.8	667.3
from marine water resources ⁽²⁾	Mm ³	352.5	461.1	595.1	742.0	664.9
from freshwater resources	Mm ³	1.8	1.4	1.8	1.9	2.5
from municipal sources	Mm ³	0	0.03	0.01	0	0.003
Water Discharged	Mm ³	352.5	461.1	595.1	742.0	664.9
cooling water discharged to sea ⁽²⁾	Mm ³	352.5	461.1	595.1	742.0	664.9
treated wastewater discharged	Mm ³	0	0	0	0	0
Water Reused / Recycled	Mm ³	- ⁽⁴⁾	- ⁽³⁾	- ⁽³⁾	- ⁽³⁾	- ⁽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. By-products & Waste Management

Ash produced	kT	50	68	94	119	126
Ash recycled / sold	kT	50	68	94	119	126
Gypsum produced	kT	43	65	73	124	121
Gypsum recycled / sold	kT	43	65	73	124	121
Hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	96 / 14	9 / 5	18 / 16	8 / 11	0 / 27
recycled	T (solid) / kl (liquid)	96 / 14	9 / 5	18 / 16	0 / 1	0 / 1
disposed	T (solid) / kl (liquid)	0 / 0	0 / 0	0 / 0	8 / 10	0 / 18
Non-hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	200 / 0	70 / 0	508 / 0	2 / 0	3 / 0
recycled	T (solid) / kl (liquid)	198 / 0	67 / 0	506 / 0	0 / 0	0 / 0
disposed	T (solid) / kl (liquid)	2 / 0	3 / 0	2 / 0	2 / 0	3 / 0

6. Safety

Employee - Fatalities	No.	0	0	0	0	0
Employee - Days lost / charged	Days	0	0	0	0	0
Employee - Lost Time Injuries ⁽⁶⁾	Cases	0	0	0	-	-
Employee - Occupational Disease ⁽⁶⁾	Cases	0	0	0	-	-
Employee - Total Work Hours ⁽⁶⁾	Manhours	806,320	747,547	686,169	-	-
Contractor - Fatalities ⁽⁶⁾	No.	0	0	0	-	-
Contractor - Lost Time Injuries ⁽⁶⁾	Cases	1	0	1	-	-
Contractor - Total Work Hours ⁽⁶⁾	Manhours	1,503,632	1,874,416	1,963,700	-	-

Notes:

(1) EAF calculated in accordance with Chinese government definition.

(2) Cooling water consumed and discharged estimated based on pump rates and pump operation hours.

(3) All wastewater is treated and reused on site but no measurement data are routinely collected.

(4) All wastewater is treated and reused on site. However, data is not available due to measurement equipment failure.

(5) Waste categorised in accordance with local regulations. Contractor waste is excluded.

(6) Started reporting in 2014.

2016 data have been independently reviewed by the Hong Kong Quality Assurance Agency (HKQAA).