

Asset Performance Statistics

Fangchenggang I Mainland China

- 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	2015	2014	2013	2012	2011
1. Operation						
Electricity sold	GWh	2,933	4,543	5,792	5,704	7,378
Coal consumed	TJ	29,748	43,282	56,007	55,046	71,491
Oil consumed	TJ	1	3	0	3	0
Thermal efficiency	%	35.5	37.8	39.5	39.8	39.8
Equivalent availability factor (EAF) ⁽¹⁾	%	88.9	81.6	87.4	89.6	87.1
2. Air Emissions						
CO ₂ e (Scopes 1 & 2)	KT	2,733	4,065	5,332	4,986	6,684
CO ₂ (Scopes 1 & 2)	KT	2,719	4,044	5,305	4,961	6,646
SO ₂	KT	2.5	3.5	4.8	4.6	6.6
NO _x	KT	0.7	1.0	4.8	5.9	7.7
Particulate (Total)	KT	0.2	0.2	0.4	0.4	0.4
3. Water						
Water Withdrawal	Mm ³	462.5	597.0	743.8	667.3	804.3
from marine water resources ⁽²⁾	Mm ³	461.1	595.1	742.0	664.9	801.3
from freshwater resources	Mm ³	1.4	1.8	1.9	2.5	3.0
from municipal sources	Mm ³	0.03	0.01	0	0.003	0.01
Water Discharged	Mm ³	461.1	595.1	742.0	664.9	801.3
cooling water discharged to sea ⁽²⁾	Mm ³	461.1	595.1	742.0	664.9	801.3
treated wastewater discharged	Mm ³	0	0	0	0	0
Water Reused / Recycled ⁽³⁾	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⁽⁴⁾	0	0	0	0

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Parameter	Unit	2015	2014	2013	2012	2011
5. By-products & Waste Management						
Ash produced	kT	68	94	119	126	177
Ash recycled / sold	kT	68	94	119	126	177
Gypsum produced	kT	65	73	124	121	170
Gypsum recycled / sold	kT	65	73	124	121	170
Hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	9 / 5	18 / 16	8 / 11	0 / 27	0 / 32
recycled	T (solid) / kl (liquid)	9 / 5	18 / 16	0 / 1	0 / 1	0 / 2
disposed	T (solid) / kl (liquid)	0 / 0	0 / 0	8 / 10	0 / 18	0 / 0
Non-hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	70 / 0	508 / 0	2 / 0	3 / 0	178 / 0
recycled	T (solid) / kl (liquid)	67 / 0	506 / 0	0 / 0	0 / 0	178 / 0
disposed	T (solid) / kl (liquid)	3 / 0	2 / 0	2 / 0	3 / 0	0 / 0
6. Safety						
Employee - Fatalities	No.	0	0	0	0	0
Employee - Days lost / charged	Days	0	0	0	0	103
Employee - Lost Time Injuries ⁽⁶⁾	Cases	0	0	-	-	-
Employee - Occupational Disease ⁽⁶⁾	Cases	0	0	-	-	-
Employee - Total Work Hours ⁽⁶⁾	Manhours	747,547	686,169	-	-	-
Contractor - Fatalities ⁽⁶⁾	No.	0	0	-	-	-
Contractor - Lost Time Injuries ⁽⁶⁾	Cases	0	1	-	-	-
Contractor - Total Work Hours ⁽⁶⁾	Manhours	1,874,416	1,963,700	-	-	-

Notes:

(1) EAF calculated in accordance with Chinese government definition. Started reporting in 2011.

(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) Yearly emission load was within the statutory limit with 3 monitoring exceedances (over 30 minutes) recorded during the year due to failure of emissions reduction equipment or sampling equipment.

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

(6) Started reporting in 2014.

2015 data have been independently reviewed by the Hong Kong Quality Assurance Agency (HKQAA).