

Fangchenggang I & II

- Coal-fired power station
- 2,580MW (2 x 630MW, 2 x 660MW)
- Phase I commissioned between 2007 and 2008, and Phase II commissioned in 2016
- Shareholding of 70% with operational control by CLP

Parameter	Unit	2017	2016 ⁽¹⁾	2015 ⁽¹⁾	2014 ⁽¹⁾	2013 ⁽¹⁾
1. Operation						
Electricity sent out ⁽²⁾	GWh	4,640	2,787	2,933	4,543	5,792
Coal consumed	TJ	46,121	28,125	29,748	43,282	56,007
Oil consumed	TJ	0	0	1	3	0
Thermal efficiency	%	36.2	35.7	35.5	37.8	37.2 ⁽³⁾
Equivalent availability factor (EAF) ⁽⁴⁾	%	80.6	97.0	88.9	81.6	87.4
2. Air Emissions						
CO ₂ e (Scopes 1 & 2)	kT	4,019	2,542	2,733	4,065	5,332
CO ₂ (Scopes 1 & 2)	kT	3,999	2,529	2,719	4,044	5,305
SO ₂	kT	1.2	1.7	2.5	3.5	4.8
NOx	kT	0.8	0.7	0.7	1.0	4.8
Particulate (Total)	kT	0.1	0.1	0.2	0.2	0.4
3. Water						
Water Withdrawal	Mm ³	598.4	354.3	462.5	597.0	743.8
from marine water resources ⁽⁵⁾	Mm ³	596.5	352.5	461.1	595.1	742.0
from freshwater resources	Mm ³	1.9	1.8	1.4	1.8	1.9
from municipal sources	Mm ³	0.00	0.00	0.03	0.01	0.00
Water Discharged	Mm ³	596.5	352.5	461.1	595.1	742.0
cooling water discharged to sea ⁽⁵⁾	Mm ³	596.5	352.5	461.1	595.1	742.0
treated wastewater discharged	Mm ³	0	0	0	0	0
Water Reused / Recycled	Mm ³	0.7	- ⁽⁷⁾	- ⁽⁶⁾	- ⁽⁶⁾	- ⁽⁶⁾
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
5. By-products & Waste Management						
Ash produced	kT	146	50	68	94	119
Ash recycled / sold	kT	146	50	68	94	119
Gypsum produced	kT	83	43	65	73	124
Gypsum recycled / sold	kT	83	43	65	73	124
Hazardous waste ⁽⁸⁾						
produced	T (solid) / kl (liquid)	252 / 20	96 / 14	9 / 5	18 / 16	8 / 11
recycled	T (solid) / kl (liquid)	252 / 20	96 / 14	9 / 5	18 / 16	0 / 1
disposed	T (solid) / kl (liquid)	0 / 0	0 / 0	0 / 0	0 / 0	8 / 10
Non-hazardous waste ⁽⁸⁾						
produced	T (solid) / kl (liquid)	236 / 0	200 / 0	70 / 0	508 / 0	2 / 0

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recycled	T (solid) / kl (liquid)	234 / 0	198 / 0	67 / 0	506 / 0	0 / 0
disposed	T (solid) / kl (liquid)	2 / 0	2 / 0	3 / 0	2 / 0	2 / 0
6. Safety						
Employee						
Fatalities	No.	0	0	0	0	0
Days lost / charged	Days	0	0	0	0	0
Lost Time Injuries ⁽⁹⁾	Cases	0	0	0	0	-
Occupational Disease ⁽⁹⁾	Cases	0	0	0	0	-
Total Work Hours ⁽⁹⁾	Manhours	827,440	806,320	747,547	686,169	-
Contractor						
Fatalities ⁽⁹⁾	No.	0	0	0	0	-
Lost Time Injuries ⁽⁹⁾	Cases	0	1	0	1	-
Total Work Hours ⁽⁹⁾	Manhours	2,409,411	1,503,632	1,874,416	1,963,700	-

Notes:

⁽¹⁾ Fangchenggang Phase 1 data included in 2016 or before. Phase 1 & 2 data included since 2017.

⁽²⁾ Electricity sent out has been reported since 2017. Prior to 2017, Electricity sold was reported.

⁽³⁾ Data updated due to correction of scope.

⁽⁴⁾ EAF calculated in accordance with Chinese government definition.

⁽⁵⁾ Cooling water consumed and discharged estimated based on pump rates and pump operation hours.

⁽⁶⁾ All wastewater is treated and reused on site but no measurement data are routinely collected.

⁽⁷⁾ All wastewater is treated and reused on site. However, data is not available due to measurement equipment failure.

⁽⁸⁾ Waste categorised in accordance with local regulations. Contractor waste is excluded.

⁽⁹⁾ Started reporting in 2014.