

Asset Performance Statistics

Yallourn

- Brown coal-fired power station and captive mine
- 1,480MW (2 x 360MW, 2 x 380MW)
- Plant commissioned between 1974 and 1982
- Wholly owned and operated by CLP



Parameter	Unit	2016	2015	2014	2013	2012
1. Operation						
Electricity sent out ⁽¹⁾	GWh	10,483	10,256	9,806	7,744	8,184
Coal consumed	TJ	158,761	152,669	146,249	119,827	124,122
Oil consumed	TJ	324	361	341	441	293
Thermal efficiency	%	23.9	24.3	24.2	23.3	23.8
Equivalent availability factor (EAF)	%	87.8	84.6	83.3	74.9	90.2
2. Air Emissions						
CO ₂ e (Scopes 1 & 2)	kT	15,298	14,635	14,008	11,478	11,945
SO ₂ ⁽²⁾	kT	21.0	21.3	20.4	18.0	19.0
NO _x ⁽²⁾	kT	14.6	15.2	15.3	14.1	14.1
Particulate (Total) ⁽³⁾	kT	6.2	6.3	5.5	3.3	3.1
3. Water						
Water Withdrawal	Mm ³	28.8	29.4	26.9	22.6	22.4
from marine water resources ⁽⁴⁾	Mm ³	-	-	-	-	-
from freshwater resources	Mm ³	27.4	28.1	25.8	21.4	21.3
from municipal sources	Mm ³	1.4	1.3	1.1	1.1	1.1
Water Discharged	Mm ³	15.2	14.2	16.3	11.6	7.2
treated wastewater discharged to sea ⁽⁴⁾	Mm ³	-	-	-	-	-
treated wastewater discharged to freshwater bodies	Mm ³	13.6	12.6	14.5	10.1	5.5
wastewater discharged to sewerage	Mm ³	1.6	1.6	1.8	1.5	1.7
Water Reused / Recycled	Mm ³	0	0	0.1	0	0
4. Environmental Compliance						
Regulatory non-compliances resulting in fines or prosecutions	No.	0	1	0	0	0
Licence limit exceedances & other non-compliances	No.	0	0	0	1	1

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5. By-products & Waste Management

Ash produced	kT	272	260	283	239	279
Ash recycled / sold	kT	0	0	0	0	0
Hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	108 / 315	211 / 223	213 / 245	173 / 211	71 / 229
recycled	T (solid) / kl (liquid)	0 / 255	1 / 222	0.3 / 232	0.3 / 211	1 / 229
disposed	T (solid) / kl (liquid)	107 / 61	209 / 1	213 / 13	172 / 0	70 / 0.2
Non-hazardous waste ⁽⁵⁾						
produced	T (solid) / kl (liquid)	1,970 / 0	1,945 / 0	2,527 / 0	1,666 / 0	2,010 / 0
recycled	T (solid) / kl (liquid)	766 / 0	1,043 / 0	867 / 0	306 / 0	893 / 0
disposed	T (solid) / kl (liquid)	1,205 / 0	902 / 0	1,660 / 0	1,360 / 0	1,117 / 0

6. Safety

Employee - Fatalities	No.	0	0	0	0	0
Employee - Days lost / charged	Days	1	13	25	0	0
Employee - Lost Time Injuries ⁽⁶⁾	Cases	1	3	2	-	-
Employee - Occupational Disease ⁽⁶⁾	Cases	0	0	0	-	-
Employee - Total Work Hours ⁽⁶⁾	Manhours	383,794	371,959	379,371	-	-
Contractor - Fatalities ⁽⁶⁾	No.	0	0	0	-	-
Contractor - Lost Time Injuries ⁽⁶⁾	Cases	1	2	3	-	-
Contractor - Total Work Hours ⁽⁶⁾	Manhours	791,998	1,033,339	1,147,536	-	-

Notes:

(1) Sent out, with mine.

(2) SO₂ and NO_x data derived from plant emissions monitoring conducted every six months.

(3) Particulate emissions from power generation only during 2010-2013, emissions from mine sources included since 2014.

(4) Not applicable to Yallourn.

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

(6) Started reporting in 2014.

2016 data have been independently verified by V&C Environment Consultants Pty Limited.