

# 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	2017	2016	2015	2014	2013
<b>1. Operation</b>						
Electricity sent out <sup>(1)</sup>	GWh	9,946	10,483	10,256	9,806	7,744
Coal consumed	TJ	152,901	158,761	152,669	146,249	119,827
Oil consumed	TJ	365	324	361	341	441
Thermal efficiency	%	23.5	23.9	24.3	24.2	23.3
Equivalent availability factor (EAF)	%	83.0	87.8	84.6	83.3	74.9
<b>2. Air Emissions</b>						
CO <sub>2</sub> e (Scopes 1 & 2)	kT	14,412	15,298	14,635	14,008	11,478
SO <sub>2</sub> <sup>(2)</sup>	kT	18.2	21.0	21.3	20.4	18.0
NO <sub>x</sub> <sup>(2)</sup>	kT	14.5	14.6	15.2	15.3	14.1
Particulate (Total) <sup>(3)</sup>	kT	5.9	6.2	6.3	5.5	3.3
<b>3. Water</b>						
Water Withdrawal	Mm <sup>3</sup>	29.3	28.8	29.4	26.9	22.6
from marine water resources <sup>(4)</sup>	Mm <sup>3</sup>	-	-	-	-	-
from freshwater resources	Mm <sup>3</sup>	28.0	27.4	28.1	25.8	21.4
from municipal sources	Mm <sup>3</sup>	1.3	1.4	1.3	1.1	1.1
Water Discharged	Mm <sup>3</sup>	14.2	15.2	14.2	16.3	11.6
treated wastewater discharged to sea <sup>(4)</sup>	Mm <sup>3</sup>	-	-	-	-	-
treated wastewater discharged to freshwater bodies	Mm <sup>3</sup>	12.3	13.6	12.6	14.5	10.1
wastewater discharged to sewerage	Mm <sup>3</sup>	1.9	1.6	1.6	1.8	1.5
Water Reused / Recycled	Mm <sup>3</sup>	0	0	0	0.1	0
<b>4. Environmental Compliance</b>						
Regulatory non-compliances resulting in fines or prosecutions	No.	0	0	1	0	0
Licence limit exceedances & other non-compliances	No.	0	0	0	0	1

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<b>5. By-products &amp; Waste Management</b>						
Ash produced	kT	279	272	260	283	239
Ash recycled / sold	kT	0	0	0	0	0
Hazardous waste <sup>(5)</sup>						
produced	T (solid) / kl (liquid)	130 / 177	108 / 315	211 / 223	213 / 245	173 / 211
recycled	T (solid) / kl (liquid)	1 / 177	0 / 255	1 / 222	0.3 / 232	0.3 / 211
disposed	T (solid) / kl (liquid)	129 / 0	107 / 61	209 / 1	213 / 13	172 / 0
Non-hazardous waste <sup>(5)</sup>						
produced	T (solid) / kl (liquid)	3,239 / 0	1,970 / 0	1,945 / 0	2,527 / 0	1,666 / 0
recycled	T (solid) / kl (liquid)	1,318 / 0	766 / 0	1,043 / 0	867 / 0	306 / 0
disposed	T (solid) / kl (liquid)	1,922 / 0	1,205 / 0	902 / 0	1,660 / 0	1,360 / 0
<b>6. Safety</b>						
Employee						
Fatalities	No.	0	0	0	0	0
Days lost / charged	Days	47	1	13	25	0
Lost Time Injuries <sup>(6)</sup>	Cases	6	1	3	2	-
Occupational Disease <sup>(6)</sup>	Cases	0	0	0	0	-
Total Work Hours <sup>(6)</sup>	Manhours	569,081	383,794	371,959	379,371	-
Contractor						
Fatalities <sup>(6)</sup>	No.	0	0	0	0	-
Lost Time Injuries <sup>(6)</sup>	Cases	3	1	2	3	-
Total Work Hours <sup>(6)</sup>	Manhours	866,593	791,998	1,033,339	1,147,536	-

## Notes:

<sup>(1)</sup> Sent out, with mine.

<sup>(2)</sup> SO<sub>2</sub> and NO<sub>x</sub> data derived from plant emissions monitoring conducted every six months.

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

<sup>(4)</sup> Not applicable to Yallourn.

<sup>(5)</sup> Waste categorised in accordance with local regulations. Contractor waste is included.

<sup>(6)</sup> Started reporting in 2014.

2017 data have been independently verified by V&C Environment Consultants Pty Limited.