

## Tallawarra

- Gas-fired power station
- 420MW (1 gas turbine & 1 steam turbine)
- Plant commissioned in 2009
- Wholly owned and operated by CLP



Parameter	Unit	2016	2015	2014	2013	2012
<b>1. Operation</b>						
Electricity sent out	GWh	858	2,496	2,435	3,062	2,702
Gas consumed	TJ	6,562	18,067	17,520	21,720	19,574
Thermal efficiency	%	47.1	49.7	50.0	51.6	50.5
Equivalent availability factor (EAF)	%	95.2	91.5	82.2	93.7	95.5
<b>2. Air Emissions</b>						
CO <sub>2</sub> e (Scopes 1 & 2)	kT	346	920	893	1,105	997
CO <sub>2</sub> (Scopes 1 & 2)	kT	345	917	891	1,102	994
SO <sub>x</sub>	kT	0.01 <sup>(1)</sup>	0.02 <sup>(1)</sup>	0.01 <sup>(1)</sup>	0.02 <sup>(1)</sup>	0.04
NO <sub>x</sub>	kT	0.04	0.10	0.23	0.33	0.29
Particulate (Total)	kT	0.0003 <sup>(1)</sup>	0.001 <sup>(1)</sup>	0.003 <sup>(1)</sup>	0.01 <sup>(1)</sup>	0.03
<b>3. Water</b>						
Water Withdrawal	Mm <sup>3</sup>	177.86	352.20	369.22	402.35	379.91
from lake (marine) water resources	Mm <sup>3</sup>	177.77	352.09	369.12	402.27	379.83
from freshwater resources <sup>(2)</sup>	Mm <sup>3</sup>	-	-	-	-	-
from municipal sources	Mm <sup>3</sup>	0.09	0.11	0.09	0.09	0.08
Water Discharged	Mm <sup>3</sup>	177.88	352.19	369.20	402.34	379.89
cooling water discharged to lake (marine)	Mm <sup>3</sup>	177.77	352.09	369.12	402.27	379.83
treated wastewater discharged to water treatment wetland	Mm <sup>3</sup>	0.11	0.10	0.07	0.07	0.05
wastewater discharged to sewerage	Mm <sup>3</sup>	0.0003	0.001	0.003	0	0.007
Water Reused / Recycled <sup>(3)</sup>	Mm <sup>3</sup>	-	-	-	-	-
<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	1	2	1	0

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5. Waste Management <sup>(4)</sup>

Hazardous waste						
produced	T (solid) / kl (liquid)	<b>0 / 2</b>	0 / 0	0 / 0.2	0 / 0.4	0 / 1
recycled	T (solid) / kl (liquid)	<b>0 / 2</b>	0 / 0	0 / 0.2	0 / 0.4	0 / 0
disposed	T (solid) / kl (liquid)	<b>0 / 0</b>	0 / 0	0 / 0	0 / 0	0 / 1
Non-hazardous waste						
produced	T (solid) / kl (liquid)	<b>14 / 1</b>	33 / 1	44 / 0	34 / 0	29 / 1
recycled	T (solid) / kl (liquid)	<b>3 / 1</b>	2 / 1	4 / 0	3 / 0	3 / 1
disposed	T (solid) / kl (liquid)	<b>11 / 0</b>	31 / 0	40 / 0	31 / 0	26 / 0.03

## 6. Safety

Employee - Fatalities	No.	<b>0</b>	0	0	0	0
Employee - Days lost / charged	Days	<b>0</b>	0	0	0	0
Employee - Lost Time Injuries <sup>(5)</sup>	Cases	<b>0</b>	0	0	-	-
Employee - Occupational Disease <sup>(5)</sup>	Cases	<b>0</b>	0	0	-	-
Employee - Total Work Hours <sup>(5)</sup>	Manhours	<b>45,065</b>	45,638	65,758	-	-
Contractor - Fatalities <sup>(5)</sup>	No.	<b>0</b>	0	0	-	-
Contractor - Lost Time Injuries <sup>(5)</sup>	Cases	<b>0</b>	0	1	-	-
Contractor - Total Work Hours <sup>(5)</sup>	Manhours	<b>7,491</b>	16,955	124,722	-	-

## Notes:

(1) Measurement data are below detection limits. Estimates on yearly emissions were made as required by local authorities.

(2) Not applicable to Tallawarra.

(3) A portion of the treated wastewater is reused on site but measurement data are not routinely collected.

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

(5) Started reporting in 2014.