

Tallawarra

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

Parameter	Unit	2017	2016	2015	2014	2013
1. Operation						
Electricity sent out	GWh	1,644	858	2,496	2,435	3,062
Gas consumed	TJ	11,965	6,562	18,067	17,520	21,720
Thermal efficiency	%	49.6	47.1	49.7	50.0	51.6
Equivalent availability factor (EAF)	%	84.9	95.2	91.5	82.2	93.7
2. Air Emissions						
CO ₂ e (Scopes 1 & 2)	kT	616	346	920	893	1,105
CO ₂ (Scopes 1 & 2)	kT	614	345	917	891	1,102
SO _x	kT	0.02 ⁽¹⁾	0.01 ⁽¹⁾	0.02 ⁽¹⁾	0.01 ⁽¹⁾	0.02 ⁽¹⁾
NO _x	kT	0.15	0.04	0.10	0.23	0.33
Particulate (Total)	kT	0.0034 ⁽¹⁾	0.0003 ⁽¹⁾	0.001 ⁽¹⁾	0.003 ⁽¹⁾	0.01 ⁽¹⁾
3. Water						
Water Withdrawal	Mm ³	274.54	177.86	352.20	369.22	402.35
from lake (marine) water resources	Mm ³	274.42	177.77	352.09	369.12	402.27
from freshwater resources ⁽²⁾	Mm ³	-	-	-	-	-
from municipal sources	Mm ³	0.12	0.09	0.11	0.09	0.09
Water Discharged	Mm ³	274.55	177.88	352.19	369.20	402.34
cooling water discharged to lake (marine)	Mm ³	274.42	177.77	352.09	369.12	402.27
treated wastewater discharged to water treatment wetland	Mm ³	0.13	0.11	0.10	0.07	0.07
wastewater discharged to sewerage	Mm ³	0.0006	0.0003	0.001	0.003	0
Water Reused / Recycled ⁽³⁾	Mm ³	-	-	-	-	-
4. Environmental Compliance						
Regulatory non-compliances resulting in fines or prosecutions	No.	0	0	0	1	0
Licence limit exceedances & other non-compliances	No.	0	0	1	2	1
5. Waste Management ⁽⁴⁾						
Hazardous waste produced	T (solid) / kl (liquid)	0 / 1	0 / 2	0 / 0	0 / 0.2	0 / 0.4
recycled	T (solid) / kl (liquid)	0 / 1	0 / 2	0 / 0	0 / 0.2	0 / 0.4
disposed	T (solid) / kl (liquid)	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0
Non-hazardous waste produced	T (solid) / kl (liquid)	37 / 0	14 / 1	33 / 1	44 / 0	34 / 0
recycled	T (solid) / kl (liquid)	7 / 0	3 / 1	2 / 1	4 / 0	3 / 0
disposed	T (solid) / kl (liquid)	30 / 0	11 / 0	31 / 0	40 / 0	31 / 0

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6. Safety						
Employee						
Fatalities	No.	0	0	0	0	0
Days lost / charged	Days	0	0	0	0	0
Lost Time Injuries ⁽⁵⁾	Cases	0	0	0	0	-
Occupational Disease ⁽⁵⁾	Cases	0	0	0	0	-
Total Work Hours ⁽⁵⁾	Manhours	53,520	45,065	45,638	65,758	-
Contractor						
Fatalities ⁽⁵⁾	No.	0	0	0	0	-
Lost Time Injuries ⁽⁵⁾	Cases	1	0	0	1	-
Total Work Hours ⁽⁵⁾	Manhours	22,424	7,491	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.