

## Asset Performance Statistics

## Paguthan

- Gas-fired power station (with naphtha as secondary fuel)
- 655MW (3x138MW gas turbine, 1x241MW steam turbine)
- Plant commissioned in 1998
- Wholly owned and operated by CLP



Parameter	Unit	2016	2015	2014	2013	2012
<b>1. Operation</b>						
Electricity sent out	GWh	547	621	271	286	1,858
Gas consumed	TJ	4,939	5,491	2,688	2,756	16,086
Naphtha consumed	TJ	0	0	0	19	3
Thermal efficiency	%	39.8	40.7	36.3	41.3	46.1
Equivalent availability factor (EAF)	%	95.6	99.0	91.3	98.6	94.2
<b>2. Air Emissions</b>						
CO <sub>2</sub> e (Scopes 1 & 2)	kT	264	289	149	151	813
CO <sub>2</sub> (Scopes 1 & 2)	kT	263	288	146	151	812
SO <sub>2</sub>	kT	0.002	0.003	0.001	0.001	0.01
NO <sub>x</sub>	kT	0.12	0.14	0.03	0.04	0.26
Particulates (Total) <sup>(1)</sup>	kT	-	-	-	-	-
<b>3. Water</b>						
Water Withdrawal	Mm <sup>3</sup>	1.32	1.20	0.92	0.92	2.95
from marine water resources <sup>(2)</sup>	Mm <sup>3</sup>	-	-	-	-	-
from freshwater resources	Mm <sup>3</sup>	1.32	1.20	0.92	0.92	2.95
from municipal sources <sup>(2)</sup>	Mm <sup>3</sup>	-	-	-	-	-
Water Discharged	Mm <sup>3</sup>	0.07	0.03	0.01	0.008	0.26
cooling water blowdown discharged to natural drain	Mm <sup>3</sup>	0.06	0.03	0.01	0.006	0.21
treated wastewater discharged to natural drain	Mm <sup>3</sup>	0.007	0.002	0.0005	0.002	0.05
wastewater discharged to sewerage <sup>(3)</sup>	Mm <sup>3</sup>	-	-	-	-	-
Water Reused / Recycled	Mm <sup>3</sup>	2.97	4.24	1.49	1.92	14.56
<b>4. Environmental Compliance</b>						
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

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

Hazardous waste						
produced	T (solid) / kl (liquid)	14 / 19	36 / 1	33 / 19	8 / 2	34 / 6
recycled	T (solid) / kl (liquid)	1 / 15	6 / 1	0.4 / 19	6 / 2	0 / 6
disposed	T (solid) / kl (liquid)	12 / 3	30 / 0	32 / 0	21 / 0	33 / 0
Non-hazardous waste						
produced	T (solid) / kl (liquid)	37 / 0	55 / 0	50 / 0	38 / 0	68 / 0
recycled	T (solid) / kl (liquid)	0 / 0	19 / 0	0 / 0	0 / 0	0 / 0
disposed	T (solid) / kl (liquid)	37 / 0	36 / 0	50 / 0	38 / 0	68 / 0

### 6. Safety

Employee - Fatalities	No.	0	0	0	0	0
Employee - Days lost / charged	Days	0	0	0	0	0
Employee - Lost Time Injuries <sup>(5)</sup>	Cases	0	0	0	-	-
Employee - Occupational Disease <sup>(5)</sup>	Cases	0	0	0	-	-
Employee - Total Work Hours <sup>(5)</sup>	Manhours	158,555	155,431	169,408	-	-
Contractor - Fatalities <sup>(5)</sup>	No.	0	0	0	-	-
Contractor - Lost Time Injuries <sup>(5)</sup>	Cases	0	0	1	-	-
Contractor - Total Work Hours <sup>(5)</sup>	Manhours	1,274,975	1,252,581	1,301,138	-	-

## Notes:

(1) Total particulates measured were below detection limit.

(2) Not applicable to Paguthan.

(3) No discharge to sewerage as wastewater is treated on site and discharged to natural drain.

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

(5) Started reporting in 2014.

2016 data have been independently verified by DNV GL Business Assurance India Pvt Limited.