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Date:
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Ref: GOU/2025/08

Dear Dr Schoeman

GOURIKWA POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF AUGUST 2025

This serves as a the monthly report required in terms of Section 9 in Gourikwa Power Station's Atmospheric Emission Licence (WCED013). The report addresses the period from 1-31 August 2025 and covers Particulate Matter, CO, SO₂ and NO_x (as NO₂) emissions.

1. Raw Materials and Products

Table 1: Quantity of Raw Materials and Products used/produced in Normal Operation

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate/unit/hour	Consumption Rate per unit/hr August 2025	Station fuel consumption for August 2025
	Diesel	Litres	40 000	Unit 11: 27 337.98 Unit 12: 28 786.93 Unit 13: 28 587.79 Unit 21: 30 418.61 Unit 22: 28 350.25	2 780 654.15
Production Rates	Product/By-product	Units	Max Production Capacity Permitted/unit	Production capacity per unit	Station Production Rate: Aug 2025
	Energy	MW	170	Unit 11: 343.78 Unit 12: 2190.12 Unit 13: 2267.70 Unit 21: 2298.84 Unit 22: 2102.98	9203.42

2. Abatement Technology

Table 2: Abatement Equipment Control Technology utilisation for the month of August

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month
Unit 11	Low NOx burners	100%
Unit 12	Low NOx burners	100%
Unit 13	Low NOx burners	100%
Unit 21	Low NOx burners	100%
Unit 22	Low NOx burners	100%

3. Emissions Reporting

Table 3: Total monthly emission rates and Licence limits

	Date & time	CO (mg/N m ³)	NO _x (mg/Nm ³)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)
Hourly Licence Limit mg/Nm³			250	50	500
Unit 11	2025/08/05 20:00	0	66	0	0
Unit 12	2025/08/02	1.7	184.5	0.1	0.25
	2025/08/05	1.6	182	0.1	2
	2025/08/06	2.1	178	0.1	0
	2025/08/07	1.58	181.25	0.1	0
Unit 13	2025/08/02	0.6	177.5	0.1	0
	2025/08/05	2.3	174	.01	1.3
	2025/08/06	1.4	170	0.1	0.2
	2025/08/07	1.8	170.75	0.1	0.95
Unit 21	2025/08/02	3.1	169	0	1.2
	2025/08/04	5.7	152	0	0.5
	2025/08/05	3.9	160	0	0.35
	2025/08/06	3.75	157	0	1.75
	2025/08/07	3.65	155.25	0	0.4
Unit 22	2025/08/02	9.9	185	0	17.1

	2025/08/05	13.85	173	0	20.6
	2025/08/06	12.6	180.5	0	21.2
	2025/08/07	13.43	177.5	0	22.4
Total Emission mass (tons)		0.971	6.814	0	0.013

Units 11&22 had zero readings for mass and emission data even when they were operating under normal operating conditions. Air conditioner was faulty (which caused the SO₂ to give faulty readings) and would be repaired through a contract.

Table 4: Each unit and respective days operating under normal operation

Unit	Hours operating under normal operation	Hours of start-up and shut-down	Total
11	2	2	4
12	9	14	23
13	9	14	23
21	11	12	23
22	9	14	23
Total	40	56	96

Table 5: Monitoring Equipment-Continuous Emission Monitoring System (CEMS) availability

Associated Unit/Stack	Technology Type	Availability of CEMS	Actual Utilisation/reliability (%) for the month
Unit 11	CEMS	100%	50%
Unit 12	CEMS	100%	23%
Unit 13	CEMS	100%	100%
Unit 21	CEMS	100%	81.82%
Unit 22	CEMS	100%	100 %

Note: Continuous Emission Monitoring System (CEMS) is always online unless a fault is reported. The system auto calibrates every four (4) hours and raises an alarm if auto calibration is out of spec. Onsite technicians calibrate the system with calibration gas annually.

Table 6: Average Point Source Emissions released during start-up, maintenance and shut-down for the month of August 2025 in mg/Nm³

Unit	NO _x	SO ₂
11	46.74	0
12	164.61	1.21
13	157.13	2.03
21	156.22	1.47
22	129.52	12.62

4. Comments on the performance and availability of each unit

- All 5 units were available to generate power for the month of August 2025
- **Leak Detection and Repair programme-** No leaks were reported during August 2025.

5. Load Factor: 1.66%

6. Complaints Register

Table 7: Complaints

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	N/A	N/A	N/A	N/A	N/A

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

For any related queries, please do not hesitate to contact me on 021 573 6162

Yours sincerely



Pamela Mrubata

GOURIKWA POWER STATION