

	<p align="center">Monthly Report</p>	<p align="center">Matla Power Station</p>
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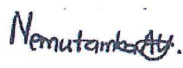
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1. Introduction

MATLA POWER STATION MONTHLY EMISSIONS REPORT FOR THE MONTH OF NOVEMBER 2025

This document serves as the monthly emissions report required in terms of Section 7.6 of Matla Power Station Provisional Atmospheric Emission License (AEL), 17/4/AEL/MP312/11/14

This report reflects Unit 1 to Unit 6 gaseous and particulate emissions performance against the AEL limit for the month of November 2025 only.

2. Raw Materials and Products

Table 1- Quantity of Raw Materials and Products Consumption in 11/2025

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Consumption – 11/2025
	Coal	Tons/month	1 475 000	602 988
	Fuel Oil	Tons/month	3 500	886.305
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate in Month of 11/2025
	Energy	GWh	2 745	1 016.239
	Ash Produced	Tons/month	471 000	160 394.808

3. Abatement Technology

Table 2-Abatement Equipment Control Technology Efficiency in 11/2025

Associated Unit/Stack	Technology Type	Efficiency	ESP Utilization
South Stack (Unit 1, 2 and 3)	Electrostatic Precipitators (ESP)	99.654%	100%
	Electrostatic Precipitators (ESP)	99.841%	
	Electrostatic Precipitators (ESP)	99.586%	
Unit 4	Electrostatic Precipitators (ESP)	98.999%	100%
Unit 5	Electrostatic Precipitators (ESP)	Off-line	100%
Unit 6	Electrostatic Precipitators (ESP)	Off-line	Off

Note: Abatement plant does not have bypass mode operation, hence plant 100% Utilised.

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4. Energy Source Characteristics

Table 3: Energy Source Material Characteristics for 11/2025

Characteristic	Stipulated Limit	Monthly Average Content
Coal		
Sulphur Content (%)	<1.1	0.820
Ash Content (%)	<40	26.600
Fuel Oil		
Sulphur Content (%)	<3.5	2.59
Ash Content (%)	<0.1	-

5. Emissions Reporting

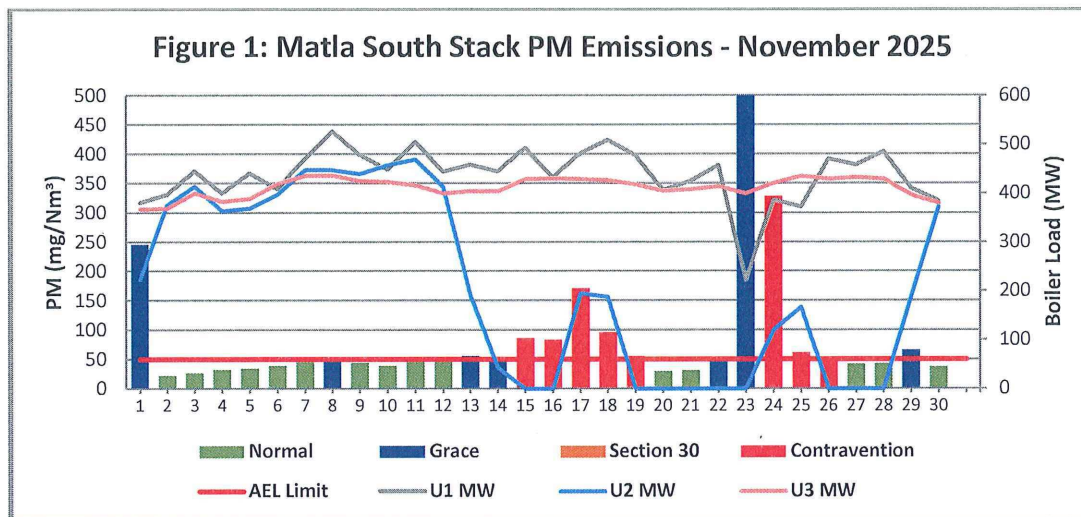
In terms of Section 59 of National Environmental Management: Air Quality Act (Act no.39 of 2004) a decision made by the Minister of DFFE, in respect of the Eskom exemption applications for new Minimum Emission Standards (MES) were granted and effective as of 01st April 2025.

Table 4- New Minimum Emission Limits are as follows:

SO ₂ Monthly = 2600 mg/Nm ³	Dust Daily= 50 mg/Nm ³ (South Stack) Dust Daily= 100 mg/Nm ³ (Unit 4, 5 and 6)	NO ₂ Daily= 1100 mg/Nm ³
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5.1 PM Daily Averages



Matla PS South Stack exceeded PM AEL Limit of 50mg/Nm³ on the following days:

01/ 11/2025: Condenser flushing on Unit 1, the unit had to be on low loads during this process.

08/11/2025: PM emission exceedance was due to Unit 1 back fields (LH7, LH8, RH7, and RH8) not rapping at all, as rapping hammers are continuously getting stuck because of space constraints within the casing. This rapping system had been declared out of service since 9 October 2025. In addition, Unit 1 precipitator field RH2 has an internal fault

13/11/2025: Unit 2 tripped

14/11/2025: Unit 2 failed light up

15/11/2025 – 16/11/2025: Unit 2 force cooling for a boiler tube leak

17/11/2025: Unit 2 light up

18/11/2025: Unit 2 forced cooling (unit 2 was shut down due to a Boiler Tube leak)

19/11/2025: Unit 1 poorly performing Precips

22/11/2025: Unit 1 poorly performing Precips

23/12/2025: Unit 1 was running with supporting oil burners due to Right Hand (RH) Primary Air (PA) Fan on Permit to Work (PTW), therefore the Precips were not running.

24/11/2025: Unit 2 cold light up

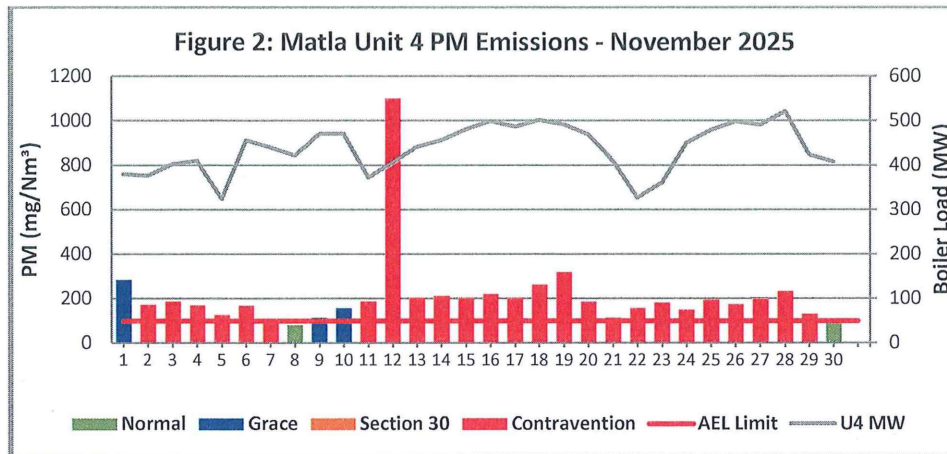
25/11/2025: Unit 2 shutdown

26/11/2025: Unit 2 force cooling

29/11/2025: Unit 2 light up

Note: The performance of Unit 1 at Matla Power Station's precips was poor for the month of November 2025. The station is currently conducting a comprehensive investigation to identify the root cause and determine appropriate corrective actions.

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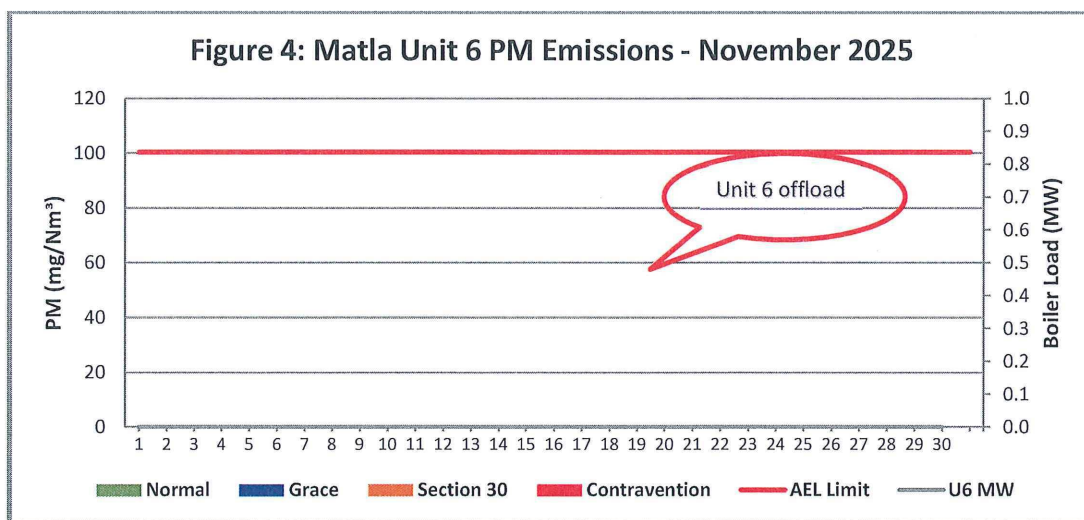
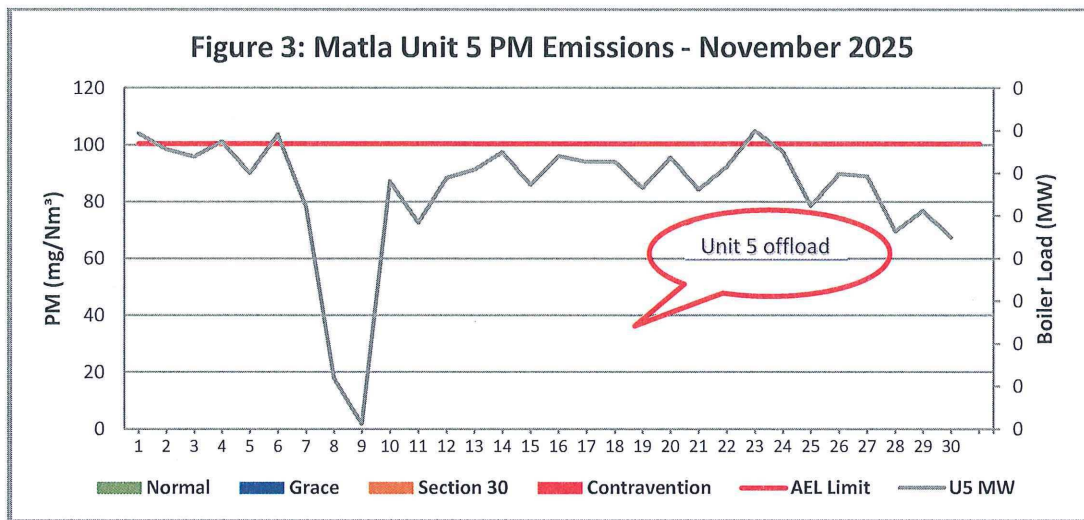


Matla PS Unit 4 exceeded PM AEL Limit of 100mg/Nm³ on the following days:

- Unit 4 was shut down on the 23rd of October 2025 for boiler tube leak repairs. During this period, underlying defects on the abatement technology were addressed.
- The unit was synchronized to load on the 31st of October 2025 at about 23:40.
- **01 – 03 November 2025:** Upon return of Unit 4, The Unit struggled to operate within AEL PM emission limit. It was suspected PM monitor was faulty as the monitor was reading abnormal values
- **04 November 2025:** C&I removed the PM monitor for calibration
- **05 November 2025:** Unit 4 tripped and hot light up was done
- **11 November 2025:** At 06:50:00 AM there was power failure which led to no power supply to the PM monitor and had no PM readings for Unit 4,
- **12 November 2025-** At 01:10:00 AM power was restored. As part of the troubleshooting process, the transformers were exchanged between LH7 and LH8 to investigate the underlying cause of LH8's suboptimal performance. Consequently, all left-hand precipitators were temporarily taken out of service during this operation. Unfortunately, a power failure occurred again following the activity.
- **13 November 2025:** The power was restored on the monitor.
- **18 -21 November 2025:** A spot check measurement was conducted to verify the particulate matter (PM) monitor readings, as the observed values were deemed unsatisfactory. Such particulate emissions were not anticipated from a plant that was undergoing opportunity maintenance.
- **08 December 2025:** A spot check measurement report was received from the service provider. Following analysis by Boiler Engineering, it was confirmed that the continuous exceedances observed at Matla PS Unit 4 were attributable to operational challenges faced by the plant.
- **01 Nov – 07 December 2025:** Unit 4 had continuous emission exceedances due to the plant Precips field poorly performing

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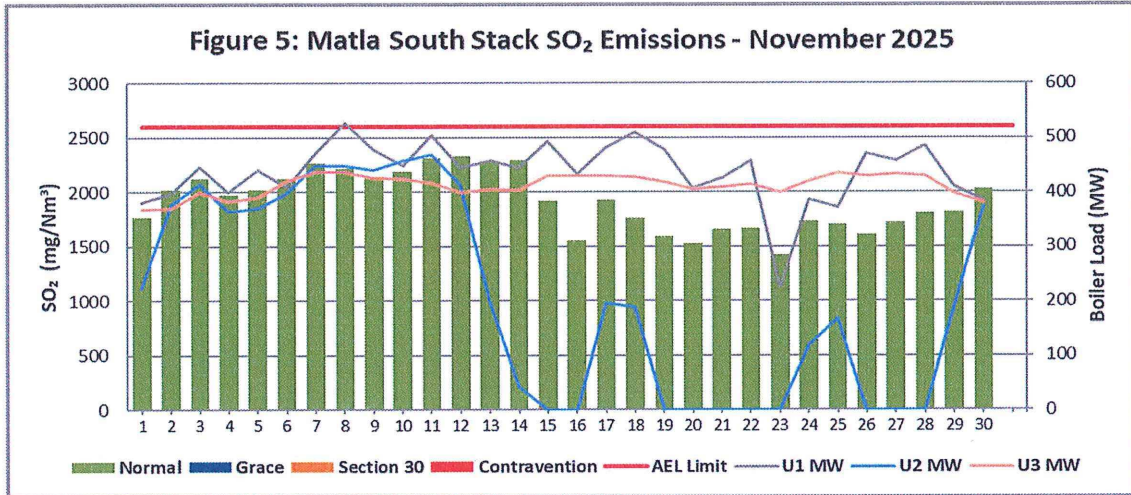
- After the review of the report, Outage was requested and the Unit was switched off on the 12th of December 2025 to fix the ESPs.
- Surrogate values were used for reporting purposes during the time where there was no power supply to the monitor and when the monitor was removed for calibration.



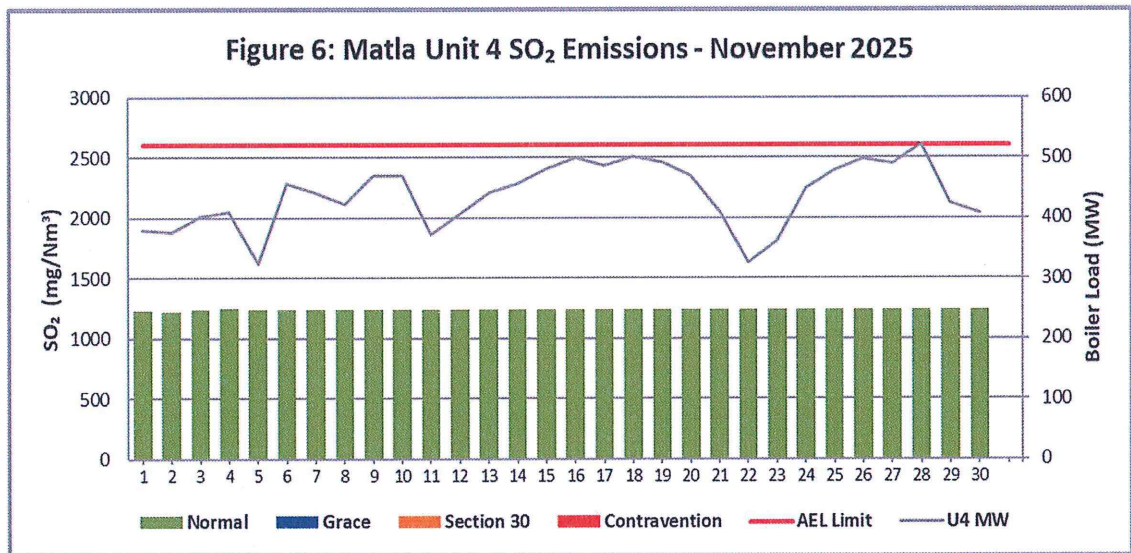
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5.2 Sox Daily Averages



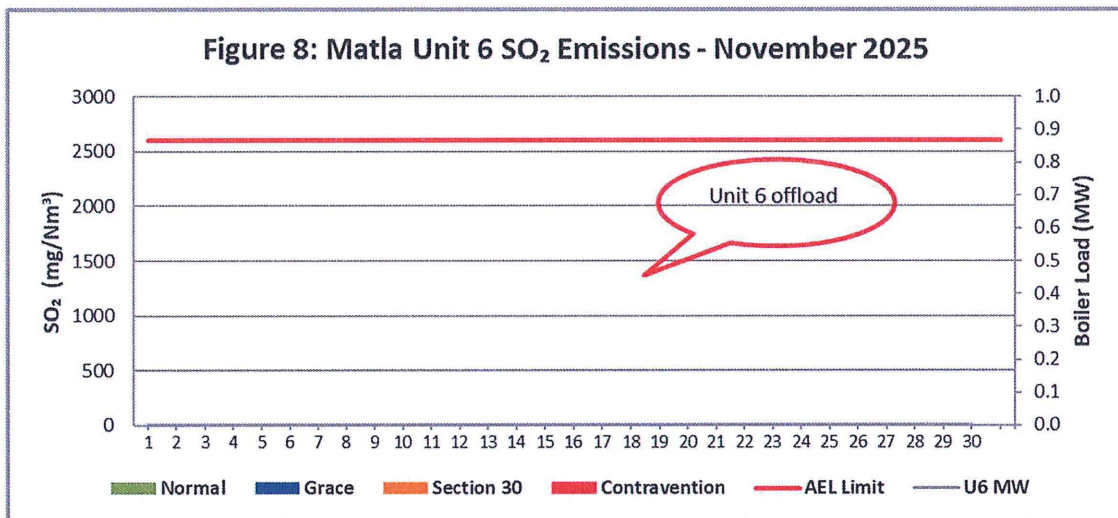
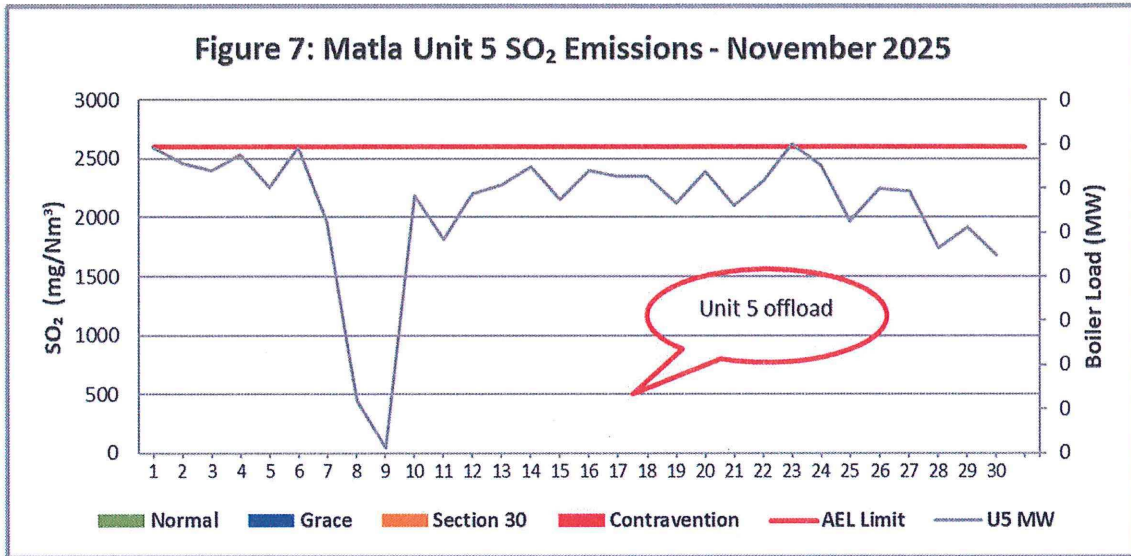
Note: Matla Power Station South Stack did not exceed SO_x limit



Note: Matla Power Station Unit 4 did not exceed SO_x limit

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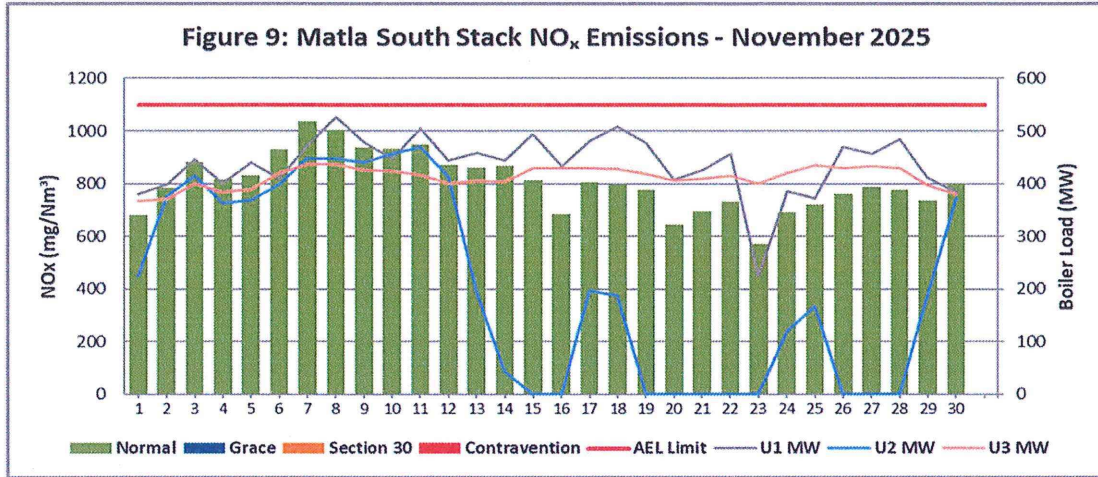
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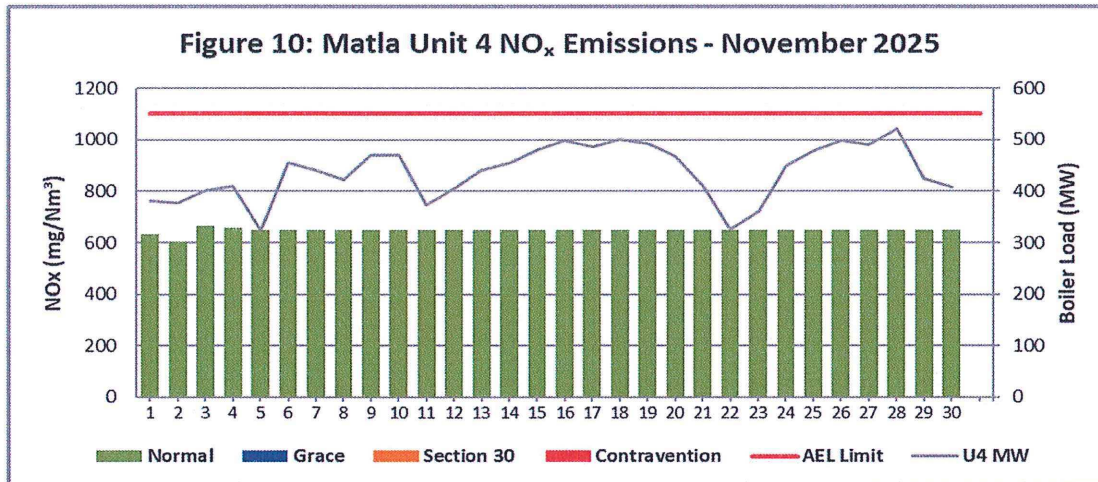
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5.3 NOx Daily Averages



Note: Matla Power Station South Stack did not exceed NOx limit



Note: Matla Power Station unit 4 did not exceed NOx limit

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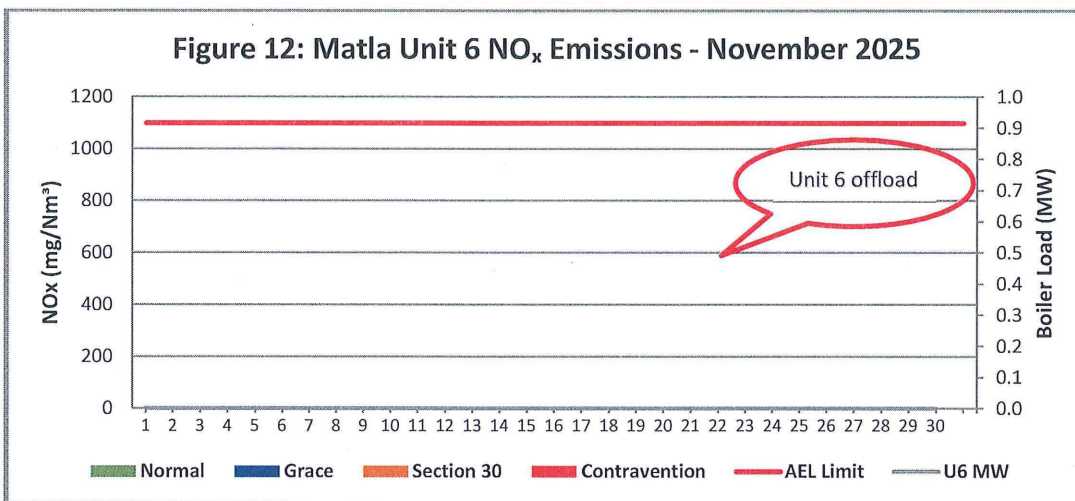
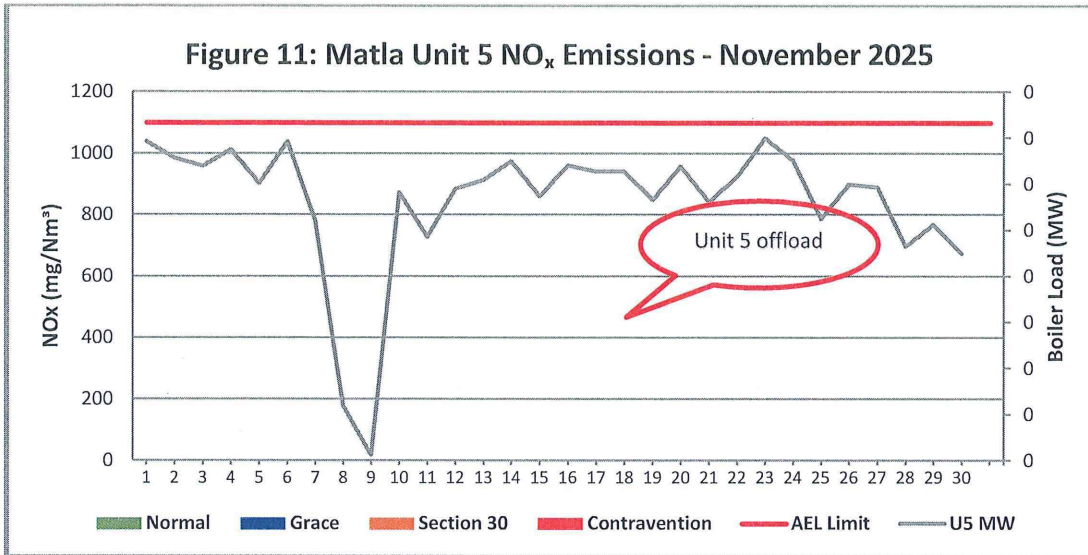


Table 5-Monthly Tonnages for 11/2025

Associated Unit/Stack	PM	SO ₂	NO ₂
Unit 1	150.9	3 379	1 427
Unit 2	37.6	1 853	769
Unit 3	168.6	3 345	1 408
Unit 4	375.3	2 393	1 250
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
SUM	732.39	10 970	4 855

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Table 6-Monthly Averages Concentration for 11/2025 in mg/Nm³

Associated Unit/Stack	PM	SO ₂	NO ₂
South Stack	96.9	1 916.5	806.1
Unit 4	210.8	1 241.9	648.7
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off

Table 7 – The No of hours, over a period of 24 hours, for which PM emissions exceeded limit

Associated Unit/Stack	Dates	Number of hours
South Stack	01/11/2025	18 hours
	08/11/2025	10 hours
	13/11/2025	17 hours
	14/11/2025	21 hours
	15/11/2025	24 hours
	16/11/2025	14 hours
	17/11/2025	22 hours
	18/11/2025	23 hours
	19/11/2025	10 hours
	22/11/2025	9 hours
	23/11/2025	20 hours
	24/11/2025	24 hours
	25/11/2025	19 hours
	26/11/2025	13 hours
29/11/2025	13 hours	

Associated Unit/Stack	Dates	Number of hours
Unit 4	2025/11/01	24 Hours
	2025/11/02	20 hours
	2025/11/03	23 hours
	2025/11/04	20 hours
	2025/11/05	16 hours
	2025/11/06	16 hours
	2025/11/07	14 hours
	2025/11/09	14 hours
	2025/11/10	19 hours
	2025/11/11	21 hours
	2025/11/12	24 hours
	2025/11/13	24 hours
	2025/11/14	24 hours
	2025/11/15	24 hours
	2025/11/16	24 hours
	2025/11/17	23 hours
	2025/11/18	23 hours
	2025/11/19	24 hours
	2025/11/20	22 hours

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	2025/11/21	13 hours
	2025/11/22	16 hours
	2025/11/23	17 hours
	2025/11/24	17 hours
	2025/11/25	22 hours
	2025/11/26	24 hours
	2025/11/27	24 hours
	2025/11/28	24 hours
	2025/11/29	11 hours

6. Continuous Emissions Monitoring System (CEMS)

Table 7- Periods during which was inoperative/malfunctioning.

Date	CEMS status	Comments
11-13 November 2025	Inoperative	There was power failure which led to no power supply to the PM monitor and had no PM readings for Unit 4.
November 2025	Low Monitor reliability	The station gas monitors reliability is low, it is <80% on Matla south Stack, (O ₂) and Unit 4 (SO ₂ , NO ₂ and O ₂). The station is currently investigating the reason of low reliability. However, parallel tests averages were used for the purpose of accurate reporting of the gases during this reporting period.

Table 8-CEMS Monitor Reliability Percentage

Associated Unit/Stack	PM	SO ₂	NO ₂	O ₂
South Stack	93.6	100.0	99.7	10.0
Unit 4	96.7	9.4	9.4	10.0
Unit 5	Off	Off	Off	Off
Unit 6	Off	Off	Off	Off

Note: Parallel tests averages were used for the purpose of accurate reporting of the gases.

7. CEMS Calibration and Equipment Used for Calibration

- Calibration certificates to be made available upon request.

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8. Validity of Correlation and Parallel Test

Table 9-Validity of Correlation and Parallel Test.

Unit/Stack	Correlation Test (PM)	Parallel Test (NO ₂ , CO ₂ , O ₂ , SO ₂)
South Stack	Valid until 27 February 2027	Valid until 31 October 2028.
Unit 4	Spot Check curve expired in September 2025. The station has a long-term contract with LEVEGO, however unable to conduct tests due to plant performance.	Valid until 11 May 2027
Unit 5	Valid Until 25 August 2026	Valid until 29 May 2027
Unit 6	Valid until 02 August 2026	Valid until 30 June 2025 Tests cannot be conducted since the Unit has been off since December 2024.

9. Complaint Register

Table 10-Complaints for the month of 11/2025

Source Code/ Name	Air pollution complaints received	Calculation of Impacts/ emissions associated with the incident	Date of complaint and date of response by the license holder	Action taken to resolve the complaint	Date when the action was implemented.

Note: No Complaints for the month of November 2025.

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