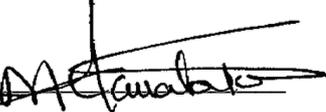
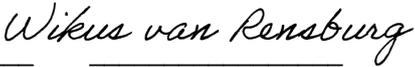


	Technical and Generic Report	Matimba Power Station
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1. Report Summary

Matimba Power Station was issued with an Atmospheric Emission License (H16/1/13-WDM05) in September 2022. The License requires the license holder to submit monthly reports to the Department. This report contains the required information as specified in the license for December 2025. The information recorded in the report is obtained from Matimba Emission Reporting tool MTB0925ERT.



During the period under review, Matimba experienced three (3) exceedances of the daily particulate matter emission limit ($50\text{mg}/\text{Nm}^3$) which occurred within the 48-hour grace period.

There were no exceedances of the monthly SO_x limit ($3500\text{mg}/\text{Nm}^3$) and the daily NO_x emission limit ($750\text{mg}/\text{Nm}^3$).

Flue gas conditioning plant availability was above 90% for 1,2,4 and 6. Unit 3 availability was 88% due to plant on PTW for leak repair on Sulphur block valve flange from the 21 December 2025 to 22 December 2025.

The consumption rates for fuel oil for the month of December 2025 exceeded the limit of 1200 tons by 1647.11 tons due to multiple units' light ups and combustion support across all operating units.

More information regarding above mentioned issues is provided in the relevant sections within the report.

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2. Emission information

2.1 Raw materials and products

Table 1: Quantity of Raw Materials and Products used/produced for the month.

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption Rate (Quantity)	Consumption Rate
	Coal	Tons/month	1 500 000	726 858.00
	Fuel Oil	Tons/month	1 200	1647.11
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate
	Energy	MW	4000	1 382.88
	Ash	Tons/month	547500	259 989.84

The consumption rates for fuel oil for the month of December 2025 exceeded the permitted maximum limits due to unit 4 multiple light ups and combustion support across all units.

2.2 Abatement technology

Table 2: Abatement Equipment Control Technology Utilised

Associated Unit	Technology Type	Minimum utilisation (%)	Efficiency (%)
Unit 1	Electrostatic Precipitator	100%	99.92%
Unit 2	Electrostatic Precipitator	100%	99.79%
Unit 3	Electrostatic Precipitator	100%	99.96%
Unit 4	Electrostatic Precipitator	100%	99.93%
Unit 5	Electrostatic Precipitator	100%	Unit Off-line
Unit 6	Electrostatic Precipitator	100%	99.96%
Associated Unit	Technology Type	Minimum utilisation (%)	Actual Utilisation (%)
Unit 1	SO ₃ Plant	100%	99%
Unit 2	SO ₃ Plant	100%	97%
Unit 3	SO ₃ Plant	100%	88%
Unit 4	SO ₃ Plant	100%	96%
Unit 5	SO ₃ Plant	100%	Unit Off-line
Unit 6	SO ₃ Plant	100%	95%

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Flue gas conditioning plant availability was above 90% for unit 1 ,2,4 and unit 6. All units SO3 plant availability was impacted by the plants was on hold when running with low load. Unit 3 availability was 88% due to plant on PTW for leak repair on Sulphur block valve flange from the 21 December 2025 to 22 December 2025

Table 3: Energy Source Material Characteristics.

	Characteristic	Stipulated Range (Unit)	Monthly Average Content
Coal burned	Sulphur Content	1.6%	1.17%
	Ash Content	40%	35.77%

Energy source characteristics remained within the ranges stipulated in the license.

2.3 Emissions reporting

2.3.1 Particulate Matter Emissions

The emission monitors correlation and parallel tests were performed on unit 2,3 and 4 in June 2024 and the curves were applied on emissions calculations for December 2025. Unit 1,5 and 6 emission calculations were done using the correlation/parallel tests curves from the spot test performed in August 2023. Unit 2 PM correlation curve applied is linear curve, Unit 3 and 4 PM correlation curve applied is polynomial curve.

Unit 1 Particulate Emissions

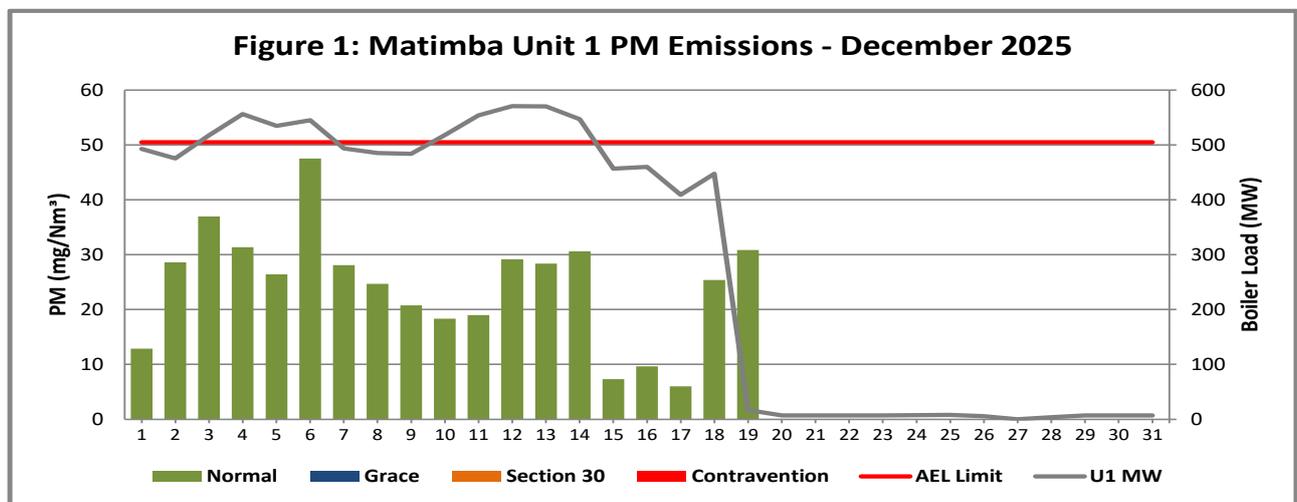


Figure 1: Particulate matter daily average emissions against emission limit for unit 1 for the month of December 2025

Interpretation: Unit 1 daily particulate emission remained within the limit of 50 mg/Nm³ for the month of December 2025. On the 19th of December 2025 the unit was taken down for maintenance.

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Unit 2 Particulate Emissions

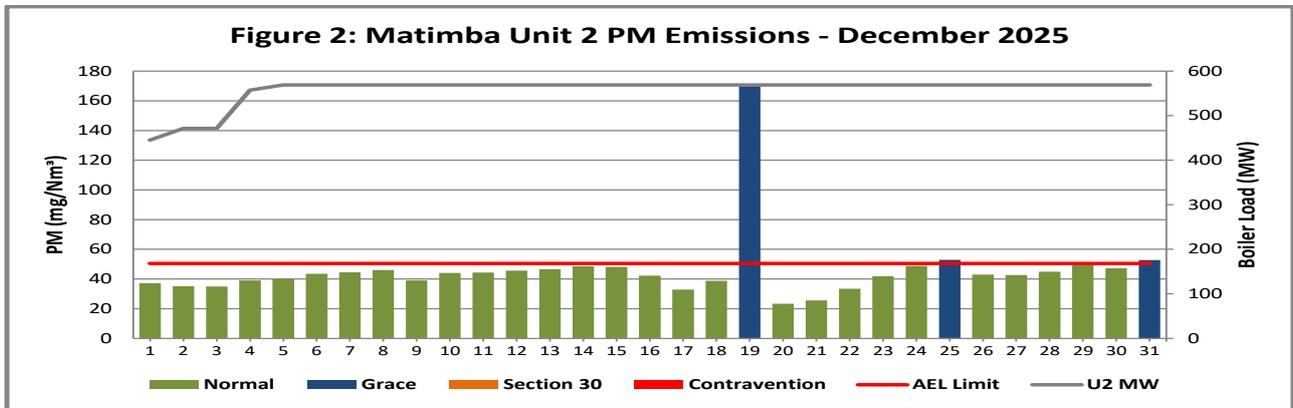


Figure 2: Particulate matter daily average emissions against emission limit for unit 2 for the month of December 2025

Interpretation: Unit 2 exceeded the daily particulate emission limit of 50 mg/Nm³ on 19th, 25th and the 31st of December 2025 due to DHP accumulating high hopper levels which resulted in ESP inefficiency, the plant upsets conditions were resolved, and both exceedances remain within the 48-hour grace period.

Unit 3 Particulate Emissions

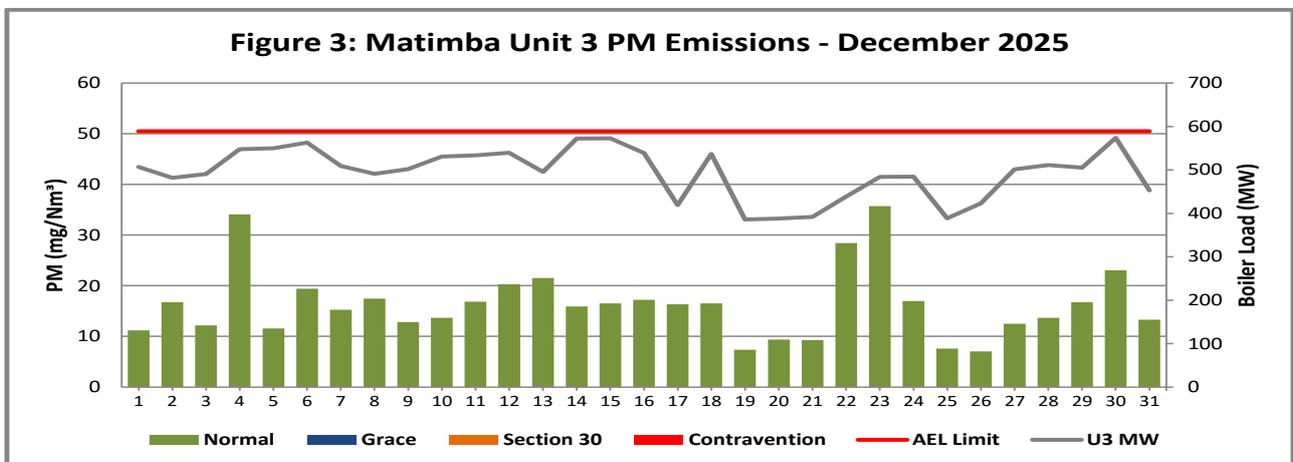


Figure 3: Particulate matter daily average emissions against emission limit for unit 3 for the month of December 2025

Interpretation: Unit 3 daily particulate emission remained within the limit of 50 mg/Nm³ for the month of December 2025.

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Unit 4 Particulate Emissions

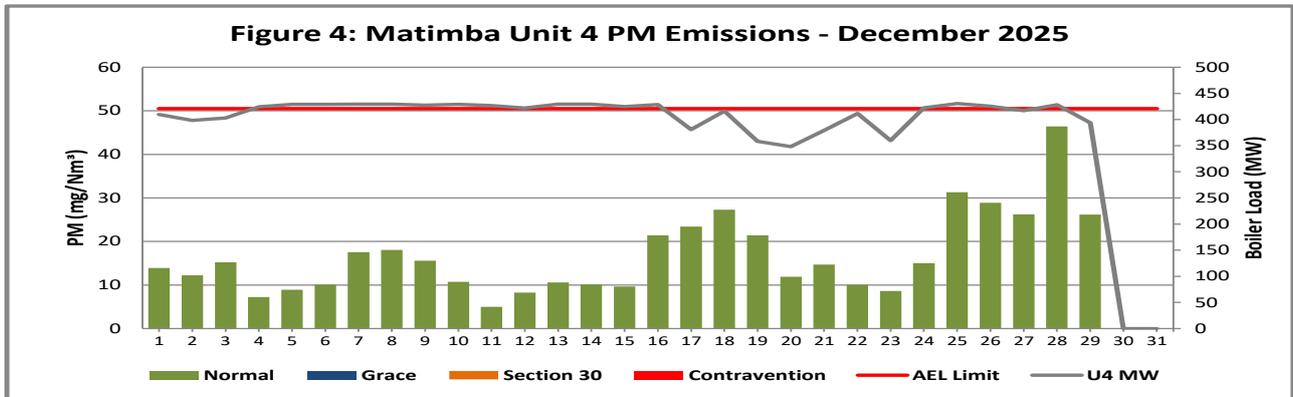


Figure 4: Particulate matter daily average emissions against emission limit for unit 4 for the month of December 2025

Interpretation: Unit 4 daily particulate emission remained within the limit of 50 mg/Nm³ for the month of December 2025. On the 30th of December 2025 the unit was taken down for maintenance.

Unit 5 Particulate Emissions

Unit on outage

Unit 6 Particulate Emissions

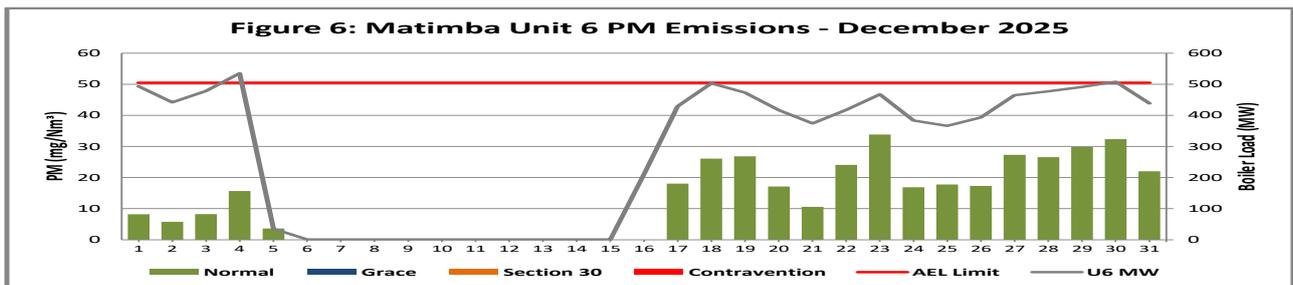


Figure 5: Particulate matter daily average emissions against emission limit for unit 6 for the month of December 2025

Interpretation: Unit 6 daily particulate emission remained within the limit of 50 mg/Nm³ for the month of December 2025. On the 06th of December 2025 the unit was taken down for maintenance and returned to service on the 15 December 2025, therefore the PM emission are measured 24 hours after unit startup as per the Atmospheric Emission License.

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2.3.2 Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in September 2025 as per the Eskom emission standard requirement.

The quality assurance tests (QAL2) used for December 2025 emission calculations were performed in June 2024 for Unit 2,3 and 4. Unit 1,5 and 6 quality assurance curves utilized are spot tests performed in August 2023

2.3.2.a SO_x Emissions

Unit 1 SO₂ Emissions

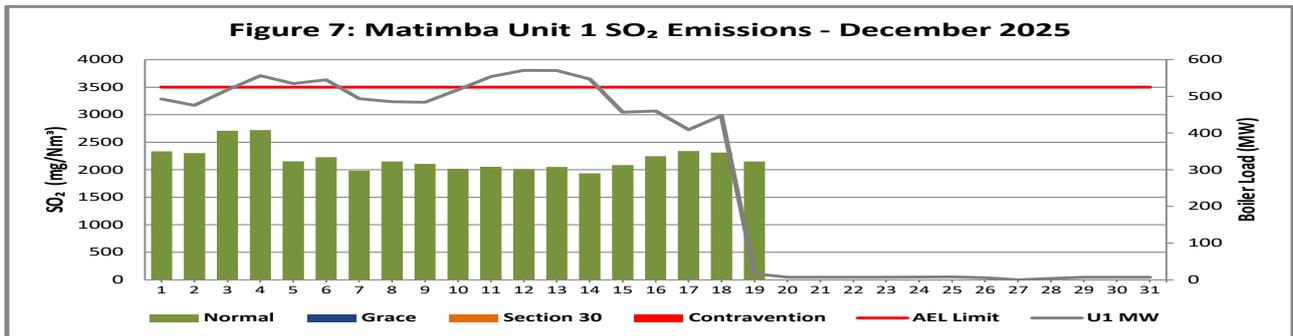


Figure 6: SO₂ daily average emissions against emission limit for unit 1 for the month of December 2025

Interpretation: All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.

Unit 2 SO₂ Emissions

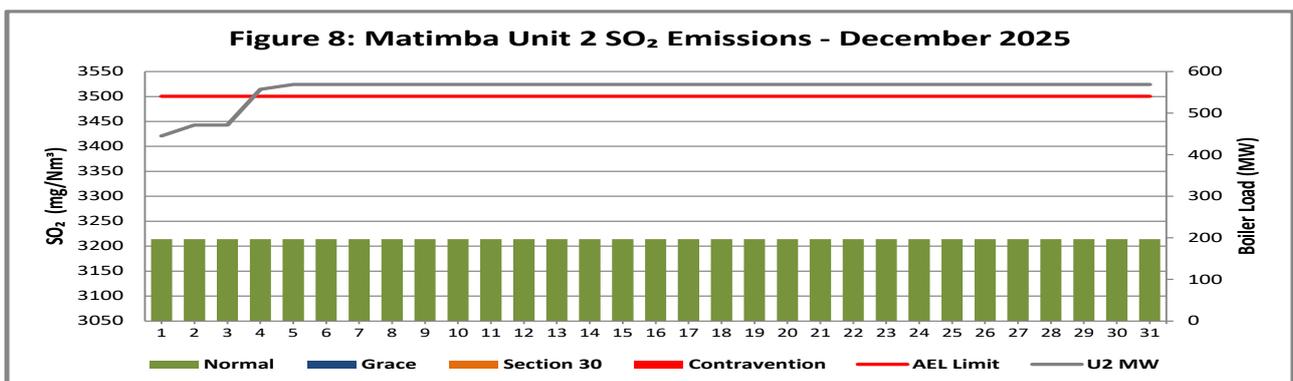


Figure 7: SO₂ daily average emissions against emission limit for unit 2 for the month of December 2025

Interpretation: All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³. SRM (Standard Reference Measurements) from the QAL 2 tests report for all the gaseous parameters were used to calculate the SO₂ gaseous emissions for unit 2 in December 2025 due to defective monitor.

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Unit 3 SO₂ Emissions

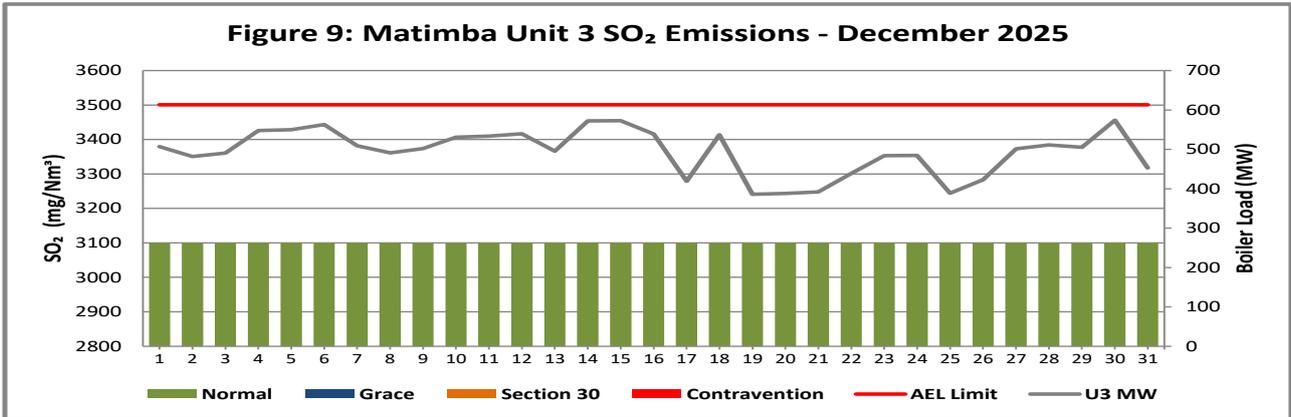


Figure 8: SO₂ daily average emissions against emission limit for unit 3 for the month of December 2025

Interpretation: All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³.SRM (Standard Reference Measurements) for all the gaseous parameters were used to calculate the SO₂ gaseous emissions for unit 3 in December 2025 due to defective monitor.

Unit 4 SO₂ Emissions

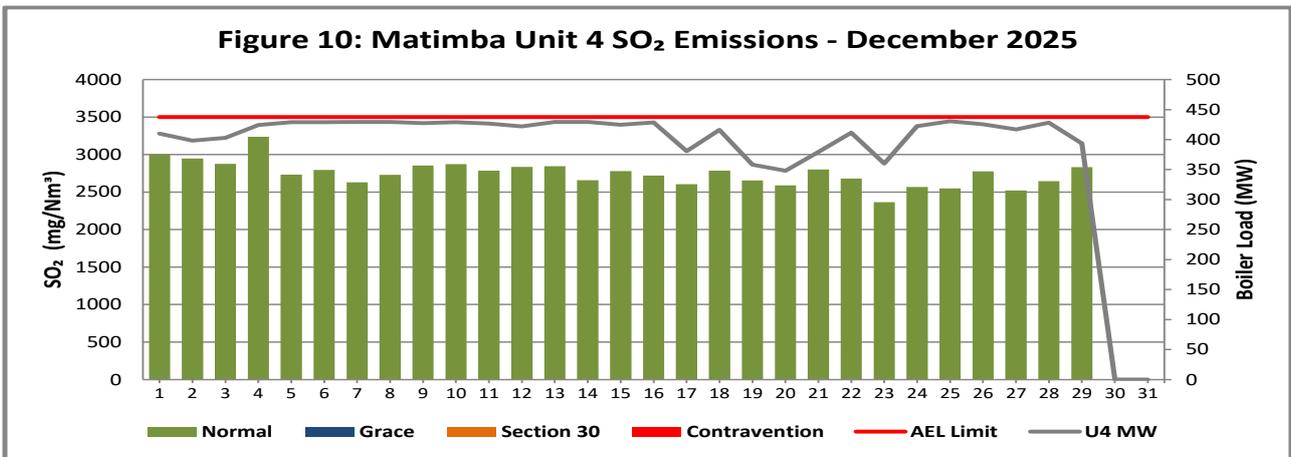


Figure 9: SO₂ daily average emissions against emission limit for unit 4 for the month of December 2025

Interpretation: All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³. On the 30th of December 2025 the unit was taken down for maintenance.

Unit 5 SO₂ Emissions

Unit on outage

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Unit 6 SO₂ Emissions

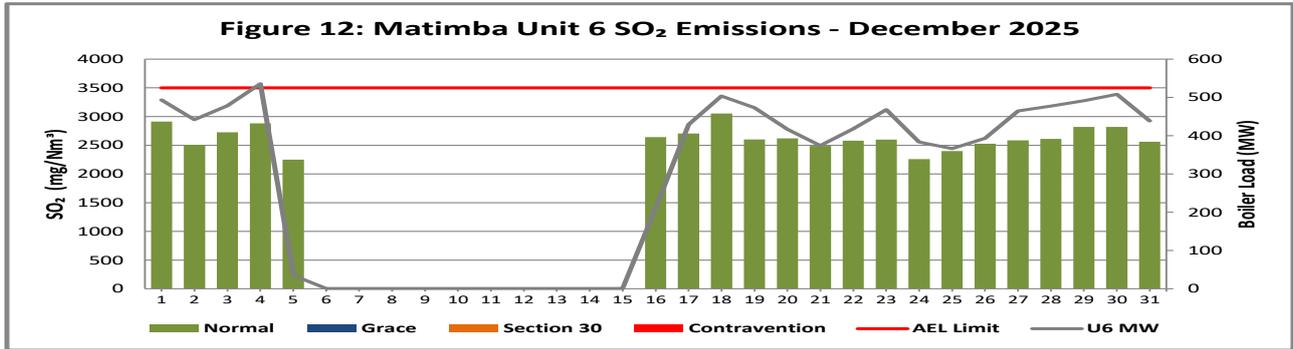


Figure 10: SO₂ daily average emissions against emission limit for unit 6 for the month of December 2025

Interpretation: All daily averages below SO₂ emission monthly limit of 3500 mg/Nm³. On the 06th of December 2025 the unit was taken down for maintenance and returned to service on the 15th December 2025.

2.3.2.b NO_x Emissions

Unit 1 NO_x Emissions

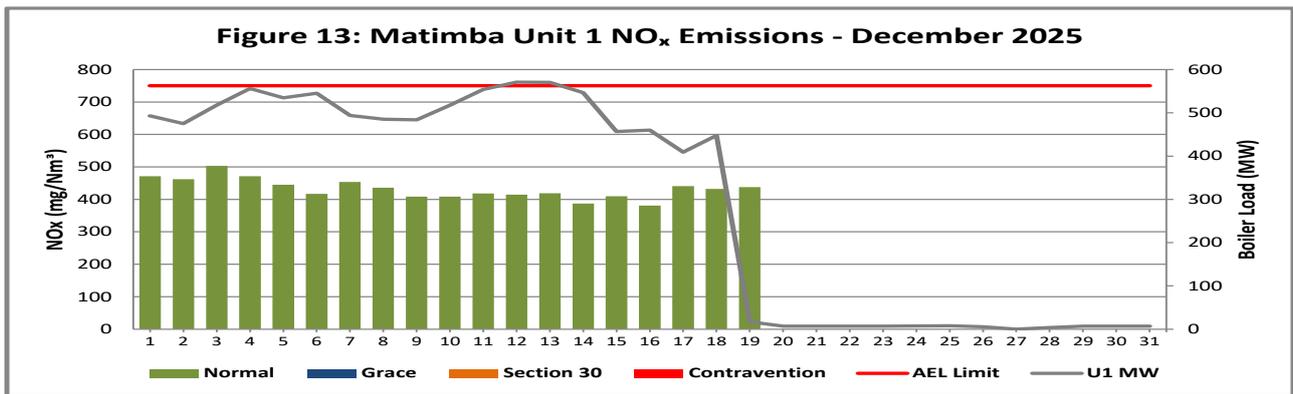


Figure 11: NO_x daily average emissions against emission limit for unit 1 for the month of December 2025

Interpretation: All daily averages below NO_x emission limit of 750 mg/Nm³. On the 19th of December 2025 the unit was taken down for maintenance .

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Unit 2 NO_x Emissions

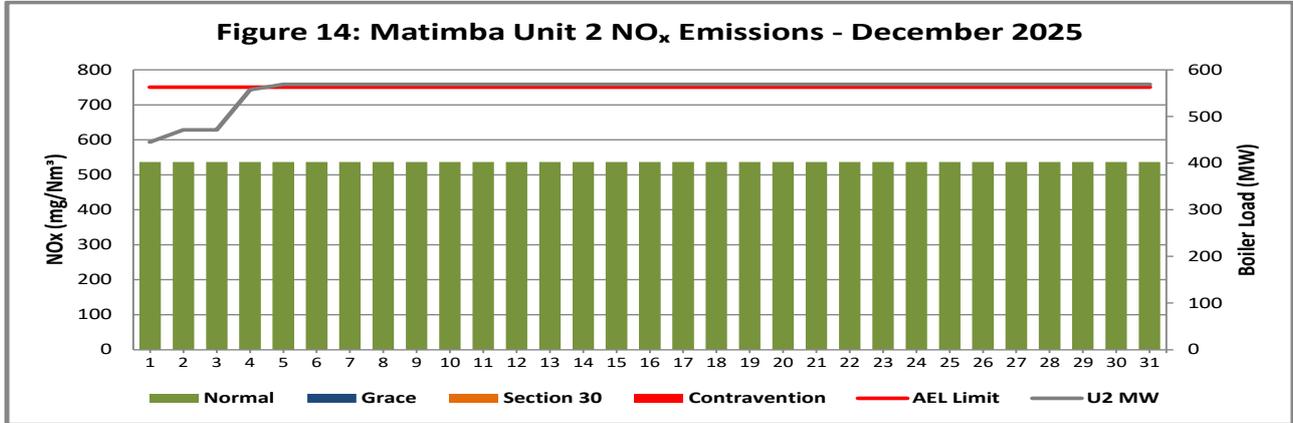


Figure 12: NO_x daily average emissions against emission limit for unit 2 for the month of December 2025

Interpretation: All daily averages below Nox emission monthly limit of 750 mg/Nm³. SRM (Standard Reference Measurements) from the QAL 2 tests report for all the gaseous parameters were used to calculate the NO_x gaseous emissions for unit 2 in December 2025 due to defective monitor.

Unit 3 NO_x Emissions

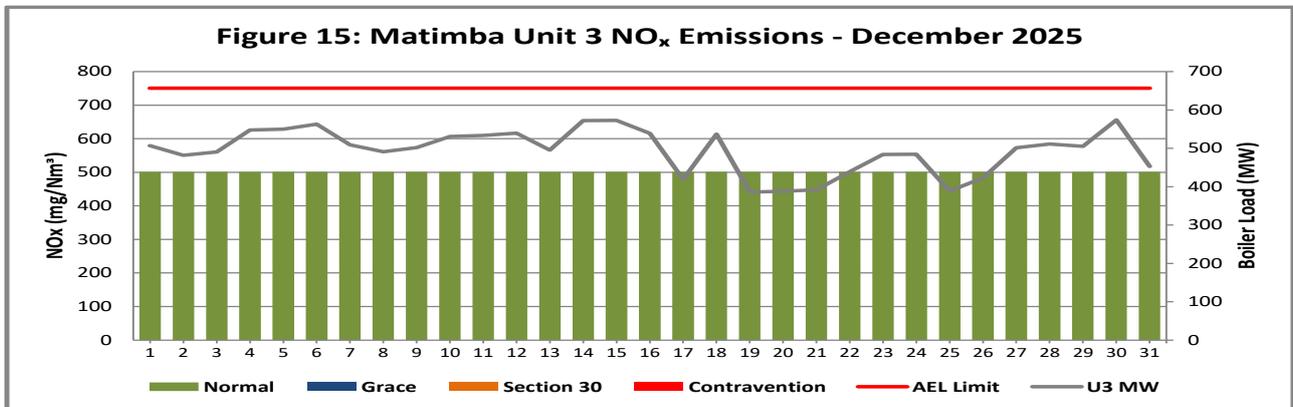


Figure 13: NO_x daily average emissions against emission limit for unit 3 for the month of December 2025

Interpretation: All daily averages below Nox emission monthly limit of 750 mg/Nm³. SRM (Standard Reference Measurements) from the QAL 2 tests report for all the gaseous parameters were used to calculate the NO_x gaseous emissions for unit 3 in December 2025 due to defective monitor.

Unit 4 NO_x Emissions

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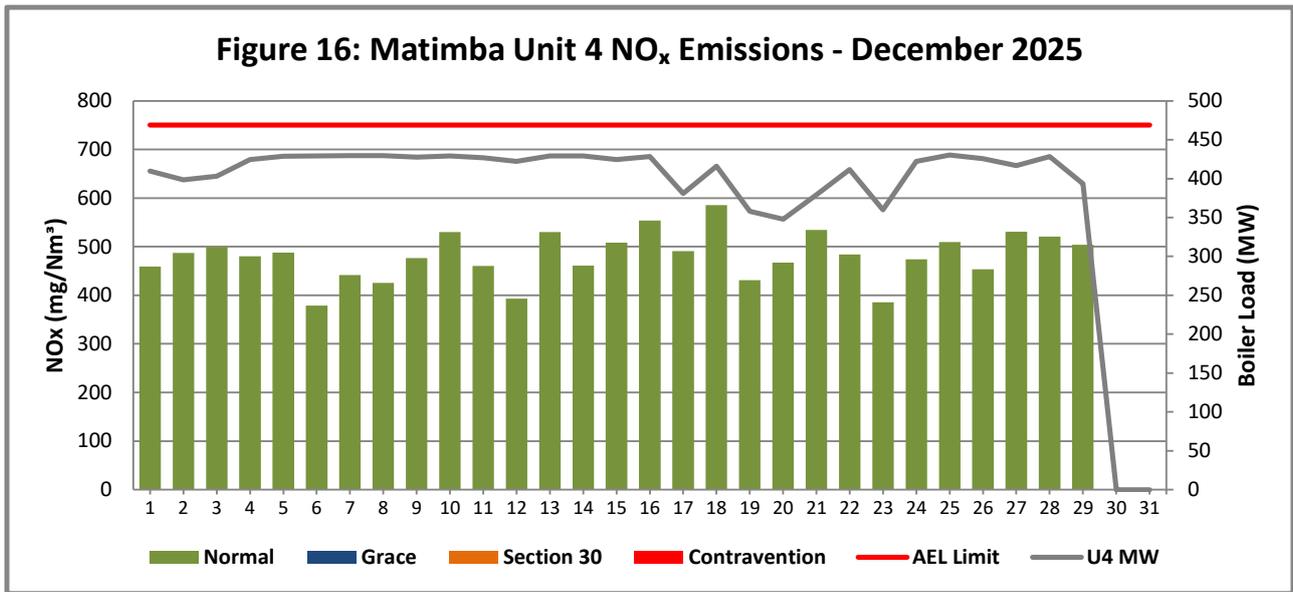


Figure 14: NOx daily average emissions against emission limit for unit 4 for the month of December 2025

Interpretation: All daily averages below NOx emission limit of 750 mg/Nm³. On the 30th of December 2025 the unit was taken down for maintenance

Unit 5 NO_x Emissions

Unit on outage

Unit 6 NO_x Emissions

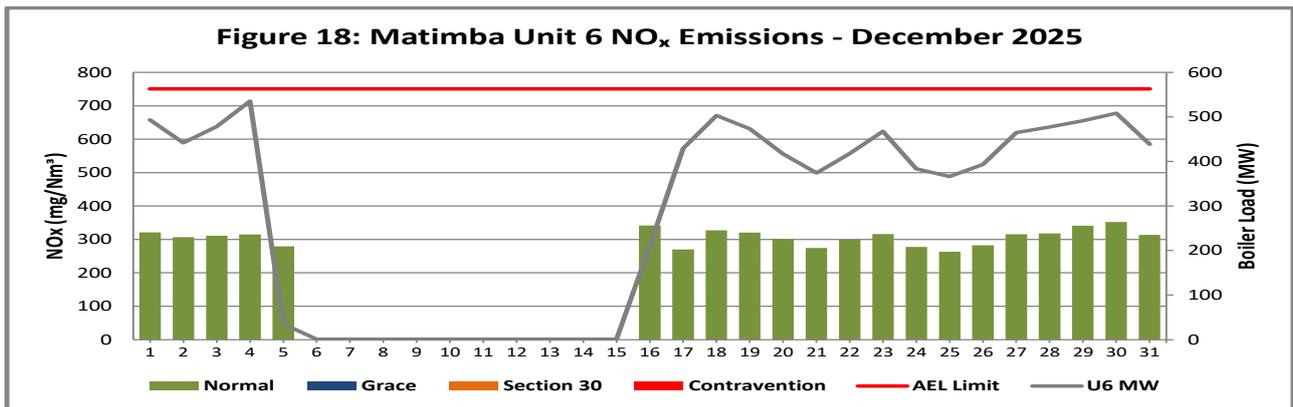


Figure 15: NOx daily average emissions against emission limit for unit 6 for the month of December 2025

Interpretation: All daily averages below NOx emission limit of 750 mg/Nm³. On the 06th of December 2025 the unit was taken down for maintenance and returned to service on the 15 December 2025.

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2.3.3 Total Volatile Organic Compounds

Table 4: Total volatile compound estimates

		
CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	Thursday, 22 January 2026	
Station:	Matimba Power Station	
Province:	Limpopo Province	
Tank no.	1-4	
Description:	Outdoor fuel oil storage tank	
Tank Type:	Vertical fixed roof (vented to atmosphere)	
Material stored:	Fuel Oil 150	
MONTHLY INPUT DATA FOR THE STATION Please only insert relevant monthly data inputs into the blue cells below Choose from a dropdown menu in the green cells The total VOC emissions for the month are in the red cells IMPORTANT: Do not change any other cells without consulting the AQ CoE		
MONTH:	December	
GENERAL INFORMATION:	Data	Unit
Total number of fuel oil tanks:	4	NA
Height of tank:	13.34	m
Diameter of tank:	9.53	m
Net fuel oil throughput for the month:	1647.110	
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	27.35	°C
Daily maximum ambient temperature	33.26	°C
Daily minimum ambient temperature	21.97	°C
Daily ambient temperature range	11.30	°C
Daily total insolation factor	6.12	kWh/m ² /day
Tank paint colour	Grey/medium	NA
Tank paint solar absorbance	0.68	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0.57 kg/month	
Working losses:	0.05 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month):	0.62 kg/month	
*Calculations performed on this spreadsheet are taken from the USEPA AP-42- Section 7.1 Organic Liquid Storage Tanks - January 1996. This spreadsheet is derived from materials provided by Jimmy Peress, PE, Trittech Consulting Engineers, 85-93 Chevy Chase Street, Jamaica, NY 11432 USA, Tel - 718-454-3920, Fax - 718-454-6330, e-mail - PeressJ@nyc.rr.com.		

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2.3.4 Greenhouse gas (CO₂) emissions

CO₂ emissions are reported in terms of the Greenhouse gas reporting regulations (GN 43712, GNR. 994/2020) and are not included in the monthly AEL compliance report.

2.4 Daily power generated.

Table 5: Daily power generated per unit in MWh for the month of December 2025

Date	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
2025/12/01	10684	9546.57	10979.5	8919.8	0	10658.8
2025/12/02	10289	10127.1	10420	8626.66	0	9517.67
2025/12/03	11234.8	10125.6	10610.9	8747.92	0	10318.1
2025/12/04	12097.1	11758.2	11858	9280.22	0	11595.6
2025/12/05	11603.6	10989.7	11937.2	9396.38	0	463.761
2025/12/06	11844.4	10706.8	12222.3	9381.8	0	0
2025/12/07	10681.4	10056.7	11032.9	9369.83	0	0
2025/12/08	10502.4	10391	10647.5	9365.49	0	0
2025/12/09	10460.5	9540.97	10867.6	9312.86	0	0
2025/12/10	11199.5	10778.1	11472.5	9352.72	0	0
2025/12/11	11754.5	10774.4	11264.6	9303.63	0	0
2025/12/12	12429.9	11213.5	11714.5	9194.72	0	0
2025/12/13	12419.5	11176.2	10645.7	9352.63	0	0
2025/12/14	11913.4	11211.2	12427.1	9355.26	0	0
2025/12/15	9909.58	11020.5	12443.5	9240.75	0	0
2025/12/16	9975.14	10059.4	11675.5	9337.4	0	4278.67
2025/12/17	8778.56	9034.96	9022.97	8253.01	0	9251.05
2025/12/18	9612.05	10494.9	11661.7	9062.72	0	10872.1
2025/12/19	0	2966.03	8326.38	7741.13	0	10208.2
2025/12/20	0	7942.71	8384.09	7520.42	0	8954.7
2025/12/21	0	8197.62	8481.99	8254.83	0	8006.65
2025/12/22	0	9913.03	9525.08	9009.61	0	8988.36
2025/12/23	0	10358.1	10486.3	7818.76	0	10106.8
2025/12/24	0	9899.02	10489	9206.63	0	8235.52
2025/12/25	0	8070.61	8350.68	9359.02	0	7837.15
2025/12/26	0	8148.29	9150.01	9252.96	0	8455.57
2025/12/27	0	9167.64	10896.4	9052.52	0	10048.3
2025/12/28	0	10553.5	11103	9330.08	0	10313
2025/12/29	0	10595.1	10950.8	8539.17	0	10602.5
2025/12/30	0	10591.9	12487.9	0	0	10974.7
2025/12/31	0	9915.09	9784.29	0	0	9447.87

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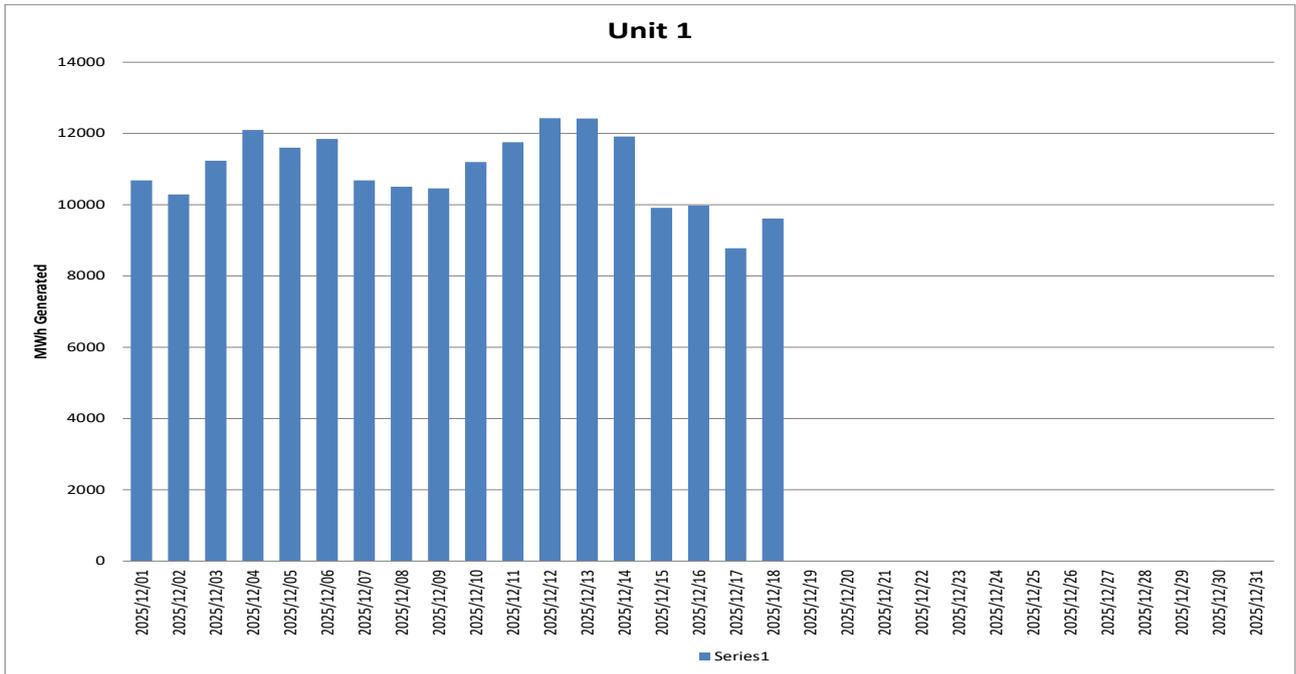


Figure 16: Unit 1 daily generated power in MWh for the month of December 2025

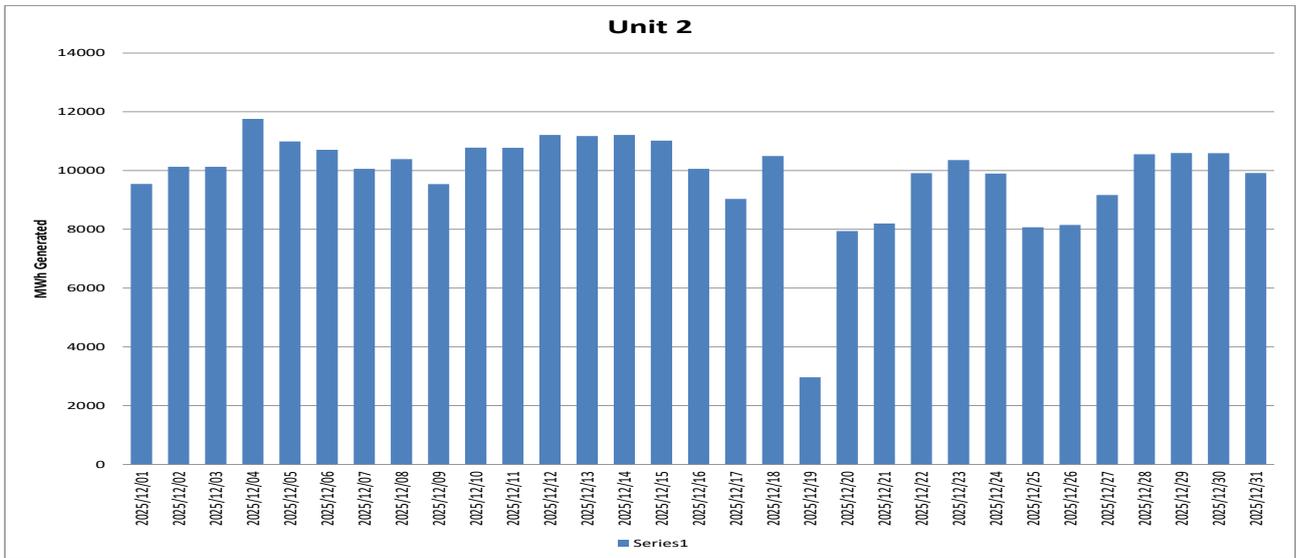


Figure 17: Unit 2 daily generated power in MWh for the month of December 2025

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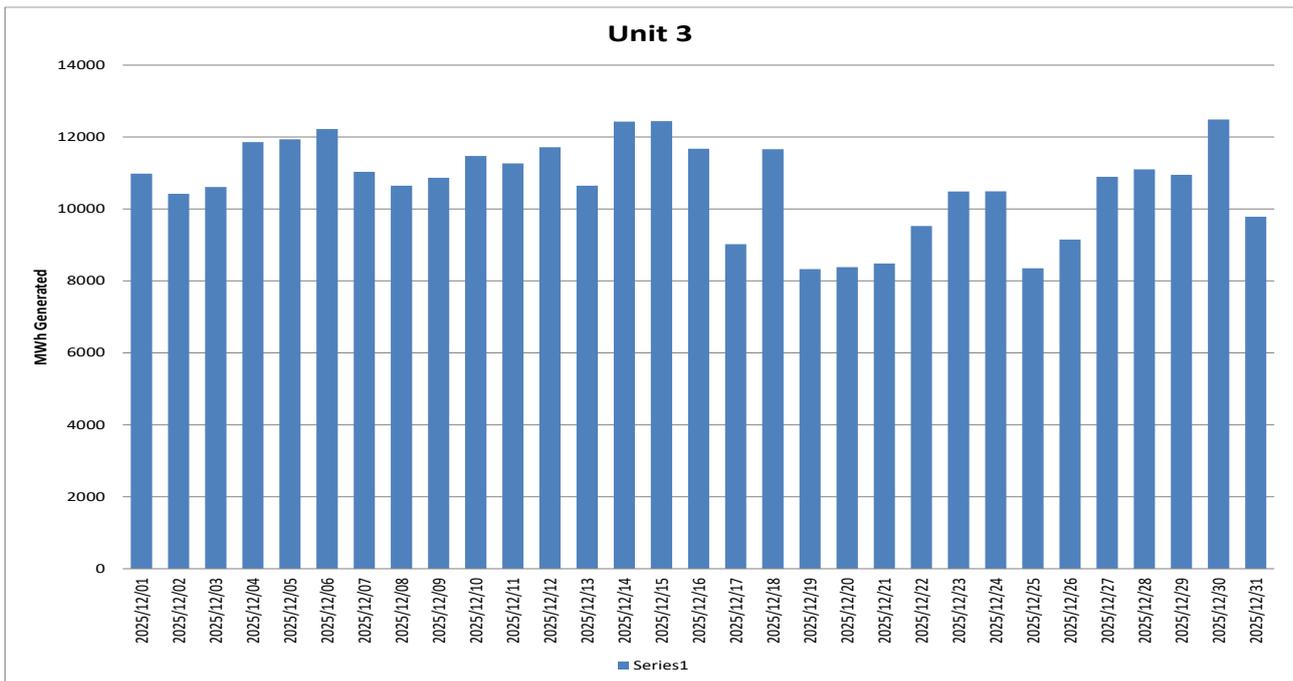


Figure 18: Unit 3 daily generated power in MWh for the month of December 2025

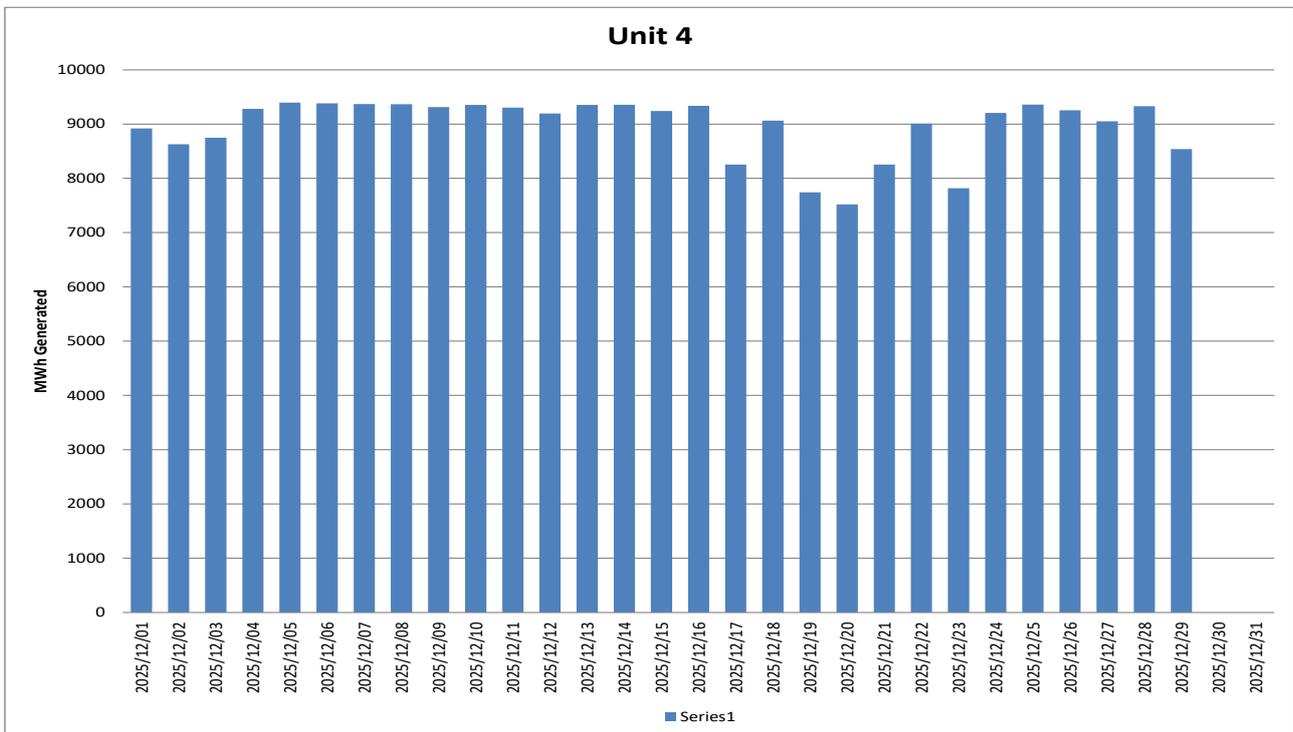


Figure 19: Unit 4 daily generated power in MWh for the month of December 2025

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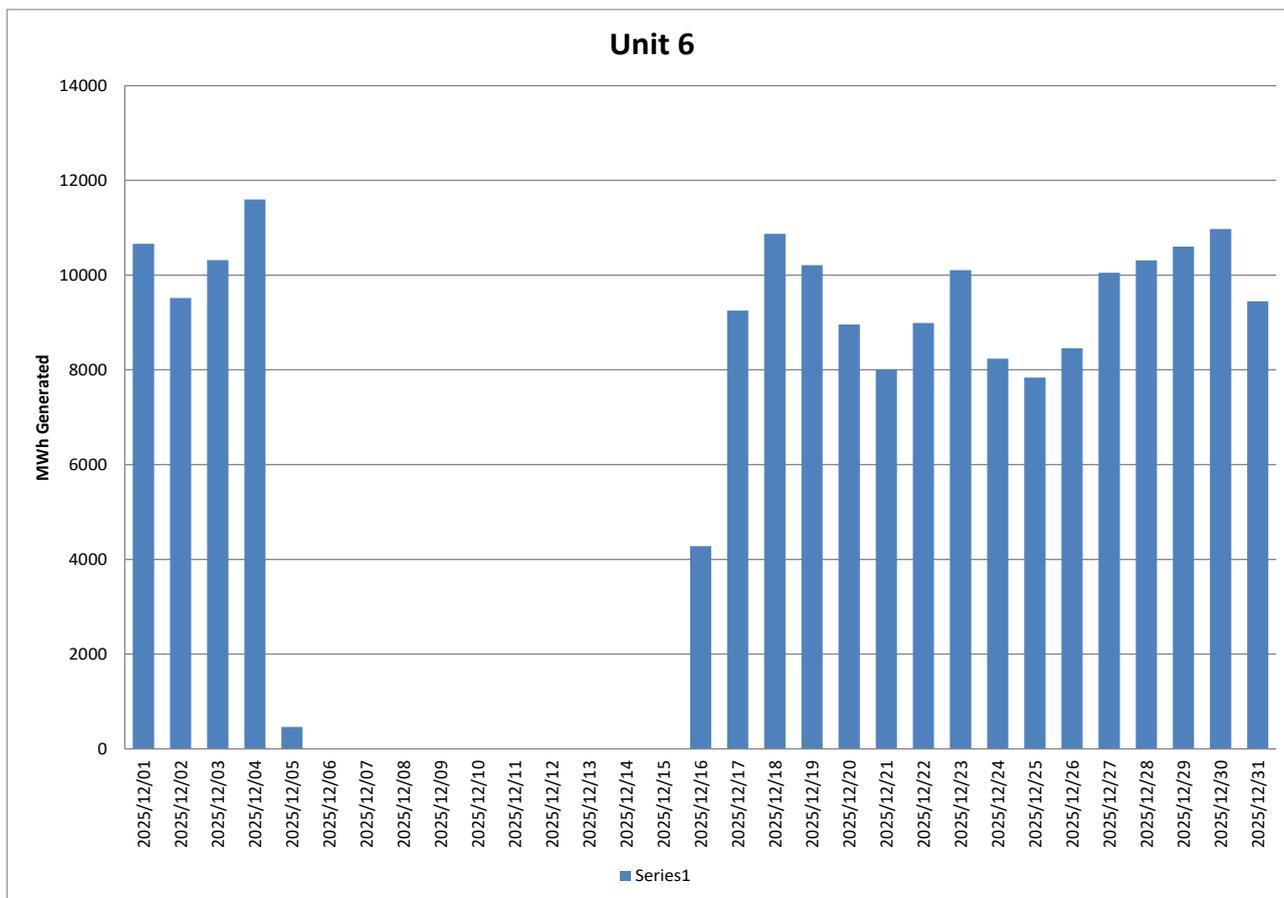


Figure 20: Unit 6 daily generated power in MWh for the month of December 2025

2.5 Pollutant Tonnes

The emitted pollutant tonnages for December 2025 are provided in table 6.

Table 6: Pollutant tonnages for the month of December 2025

Associated Unit/Stack	PM (tons)	SO2 (tons)	NOx (tons)
Unit 1	26.0	2 367	463
Unit 2	113.2	8 046	1 343
Unit 3	23.3	4 358	705
Unit 4	30.0	4 892	858
Unit 5	Off	Off	Off
Unit 6	13.6	1 866	217
SUM	206.08	21 529	3 586

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2.6 Operating days in compliance to PM AEL Limit

Table 7: Operating days in compliance with PM AEL limit of December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	19	0	0	0	0	24.3
Unit 2	28	3	0	0	3	46.0
Unit 3	31	0	0	0	0	16.3
Unit 4	29	0	0	0	0	16.8
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	20	0	0	0	0	19.4
SUM	127	3	0	0	3	

2.7 Operating days in compliance to SOx AEL Limit

Table 8: Operating days in compliance with SOx AEL limit of December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
Unit 1	19	0	0	0	0	432.5
Unit 2	31	0	0	0	0	536.4
Unit 3	31	0	0	0	0	501.2
Unit 4	29	0	0	0	0	480.8
Unit 5	Off	Off	Off	Off	Off	Off
Unit 6	21	0	0	0	0	307.0
SUM	131	0	0	0	0	

2.8 Operating days in compliance to NOx AEL Limit

Table 9: Operating days in compliance with NOx AEL limit of December 2025

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Limit Value	Mnth Avg (mg/Nm ³)
Unit 1	19	0	0	0	0	3500	2 204.9
Unit 2	31	0	0	0	0	3500	3 214.1
Unit 3	31	0	0	0	0	3500	3 100.0
Unit 4	29	0	0	0	0	3500	2 747.1
Unit 5	Off	Off	Off	Off	Off	3500	Off
Unit 6	21	0	0	0	0	3500	2 625.6
SUM	131	0	0	0	0		

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2.9 Continuous Emission Monitors

Table 10: Monitor reliability percentage (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
Unit 1	99.6	100.0	100.0	100.0
Unit 2	99.1	100.0	100.0	100.0
Unit 3	98.4	100.0	100.0	100.0
Unit 4	97.1	100.0	100.0	100.0
Unit 5	Off	Off	Off	Off
Unit 6	98.1	100.0	100.0	100.0

Note: NO_x emissions are measured as NO in PPM. The final NO_x value is expressed as total NO₂ equivalent.

Comments:

Unit 2 and 3 gaseous monitor reliability was 100% due to the SRM (Standard Reference Material) values from the parallel test used to calculate the gaseous emissions for unit 2 and 3.

2.10.1 Changes, downtime, and repairs

Unit 1

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors.

Unit 2

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors.

Unit 3

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors.

Unit 4

- No adjustments done on the CEMs.
- No downtime or repairs done on the particulate monitors.

Unit 5

- Unit off load.

Unit 6

- No adjustments done on the CEMs.
- Correlation test done in September 2025

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2.10.2 Sampling dates and times

Table 11: Dates of last full conducted CEMS verification tests for PM for unit 6.

Name of service provider:		Stacklabs Environmental Services CC		
Address of service provider:		10 Chisel Street Boltonia Krugersdorp 1739		
Stack/ Unit	PM	SO₂	NO_x	CO₂
6	2020/09/09 06h41	New sampling tests in table 14	New sampling tests in table 14	New sampling tests in table 14

Table 12: Dates of last conducted CEMS Spot verification tests for PM, SO₂ and NO_x for unit 1, 5 and 6)

Name of service provider:		Levego Environmental services		
Address of service provider:		Building R6 Pineland site Ardeer Road Modderfontein 1645		
Stack/ Unit	PM	SO₂	NO_x	CO₂
1	2023/08/01 19h33	2023/08/01 19:33	2023/08/01 19:33	2023/08/01 19:33
5	2023/08/05 07:30	2023/08/05 07:30	2023/08/05 07:30	2023/08/05 07:30
6	Dates in table 13 above	2023/08/05 15:52	2023/08/05 15:52	2023/08/05 15:52

Note: The CEMS Spot verification tests for PM, SO₂ and NO_x were performed in August 2023. PM spot verification test results for unit 6 failed and old curves are still in use.

Table 13: Dates of last full conducted CEMS verification tests for PM for unit 2, unit 3 and 4 only

Name of service provider:		Levego Environmental services		
Address of service provider:		Building R6 Pineland site Ardeer Road Modderfontein 1645		
Stack/ Unit	PM	SO₂	NO_x	CO₂
2	2024/07/02 08h50	2024/07/02 12h35	2024/07/02 12h35	2024/07/02 12h35
3	2024/06/23 16h34	2024/06/23 14h00	2024/06/23 14h00	2024/06/23 14h00
4	2024/06/29 16h05	2024/06/29 11h00	2024/06/29 11h00	2024/06/29 11h00

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Name of service provider:		Inthuu Measurement		
Address of service provider:		2/410 Seventh Road Bredell Kepton park 1619		
Stack/ Unit	PM	SO₂	NO_x	CO₂
6		2025/08/13 16h26	2025/08/13 16h26	2025/08/13 16h26

2.10 Units Start-up information

Table 14: Start-up information

Unit	2	
Fires in	2025/12/19	03h48
Synchronization with Grid	2025/12/19	11h19
Emissions below limit	2025/12/19	17h02
Fires in, to synchronization	5.43	HOURS
Synchronization to < Emission limit	2.58	HOURS

Unit	6	
Fires in	2025/12/16	01h55
Synchronization with Grid	2025/12/16	12h40
Emissions below limit	2025/12/16	18h00
Fires in, to synchronization	6.28	HOURS
Synchronization to < Emission limit	5.20	HOURS

2.11 Emergency generation

Table 15: Emergency generation

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
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Emergency Generation hours declared by national Control	720	720	720	720	0	720
Emergency Hours declared including hours after standing down	432	730	742	694	0	469
Days over the Limit during Emergency Generation	0	3	0	0	0	0

During the period under review all Units were on emergency generation in force from 01 December 2025 until 30 December 2025.

2.12 Complaints register.

Table 16: Complaints

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

2.13 Air quality improvements and social responsibility conducted.

Air quality improvements

None

Social responsibility conducted.

None

2.14 Ambient air quality monitoring

The December 2025 ambient air quality monitoring report is attached to this report as an addendum.

2.15 Electrostatic precipitator and Sulphur plant status

Unit 1

- No issues on precipitators.

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- The SO₃ plant operated normally with no abnormalities observed.

Unit 2

- Precipitator internal damage to be repaired during next opportunity.
- The SO₃ plant operated normally with no abnormalities observed.

Unit 3

- No issues with precipitators.
- The SO₃ plant operated normally with no abnormalities observed.

Unit 4

- No issues with precipitators.
- The SO₃ plant operated normally with no abnormalities observed.

Unit 5

- Unit on outage.

Unit 6

- Precipitator internal damage to be repaired during next opportunity.
- The SO₃ plant operated normally with no abnormalities observed.

SO₃ common plant

- The SO₃ common plant is operating normally with no abnormalities observed.

2.16 General**Name and reference number of the monitoring methods used:**

1. Particulate and gas monitoring according to standards
 - a. BS EN 14181:2004 - Quality Assurance of Automated Measuring Systems
 - b. Eskom internal standard 240-56242363 Emissions Monitoring and Reporting Standard

Sampling locations:

1. Stack one
 - a. Particulates:
 - i. S23° 40' 2.8" E027° 36' 34.8" 175m from ground level and 75m from the top.
 - b. Gas:
 - i. S23° 40' 2.8" E027° 36' 34.8" 100m from ground level and 150m from the top.
 - c. Stack height
 - i. 250 meter consist of 3 flues
2. Stack two
 - a. Particulates:
 - i. S23° 40' 14.8" E027° 36' 47.5" 175m from ground level and 75m from the top.
 - b. Gas:
 - i. S23° 40' 14.8" E027° 36' 47.5" 100m from ground level and 150m from the top.
 - c. Stack height
 - i. 250 meter consist of 3 flues

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3. Attachments

- Fugitive dust fall out monitoring report and Ambient air quality report.
- Marapong ambient air quality report
- Ash Plant Fugitive dust management plan in respond to fugitive dust monitoring exceedances in November 2025.

4. Report Conclusion

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

Hoping the above will meet your satisfaction.

I hereby declare that the information in this report is correct.

Yours sincerely

Wikus van Rensburg

GENERAL MANAGER: MATIMBA POWER STATION

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