	Technical and Generic Report	Matimba Power Station
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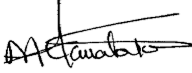
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Figure 20: Unit 6 daily generated power in MWh for the month of March 2024.....32

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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 March 2024. The information recorded in the report is obtained from Matimba Emission Reporting tool V02.2024VF.



During the period under review, Matimba experienced one-hundred and four (104) exceedances of the daily particulate matter emission limit (50mg/Nm³), seventy (70) of these exceedances occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence and thirty-four (34) exceedances occurred within the 48-hour grace period.

There were no exceedances of the monthly SO_x limit (3500mg/Nm³) and the daily NO_x emission limit (750mg/Nm³) occurred.

Flue gas conditioning plant availability was below the required 100% for all the units due to unplanned breakdowns and defects. Defects were addressed and plants returned to service. Unit 2 SO₃ plant was constantly on hold for the month of March 2024. The unit was running with minimum load due to EFP (Electric Feed Pump) high vibrations that caused the precipitators inlet temperature to struggle to get to 120°C which is the release criteria for the plant to be selected to run.

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	858 352
	Fuel Oil	Tons/month	1 200	2222.206
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate
	Energy	MW	4000	1066.916

The consumption rates for fuel oil for the month of March 2024 exceeded the permitted maximum limits due to multiple units light ups and mill support.

2.2 Abatement technology

Table 2: Abatement Equipment Control Technology Utilised

Associated Unit	Technology Type	Minimum utilisation (%)	Efficiency (%)
Unit 1	Electrostatic Precipitator	100%	99.998%
Unit 2	Electrostatic Precipitator	100%	99.998%
Unit 3	Electrostatic Precipitator	100%	99.998%
Unit 4	Electrostatic Precipitator	100%	Off
Unit 5	Electrostatic Precipitator	100%	99.998%
Unit 6	Electrostatic Precipitator	100%	99.998%
Associated Unit	Technology Type	Minimum utilisation (%)	Actual Utilisation (%)
Unit 1	SO ₃ Plant	100%	88%
Unit 2	SO ₃ Plant	100%	33%
Unit 3	SO ₃ Plant	100%	94%
Unit 4	SO ₃ Plant	100%	Off%
Unit 5	SO ₃ Plant	100%	91%
Unit 6	SO ₃ Plant	100%	96%

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Unit 2 SO3 plant was constantly on hold for the month of March 2024. The unit load was running with minimum load due to EFP (Electric Feed Pump) high vibrations that caused the precipitators inlet temperature to struggle to get to 120°C which is the release criteria for the plant to be selected to run.

Table 3: Energy Source Material Characteristics.

	Characteristic	Stipulated Range (Unit)	Monthly Average Content
Coal burned	Sulphur Content	1.6%	1.32%
	Ash Content	40%	35.45%

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

2.3 Emissions reporting

Particulate Matter Emissions

The emission monitors Correlation spot test were performed in August 2023 and the results were applied and used for gaseous emissions calculation for March 2024. The spot test results for PM emissions does not meet the minimum requirements outlined in the Eskom emission calculation Methodology and were not applied.

Unit 1 Particulate Emissions

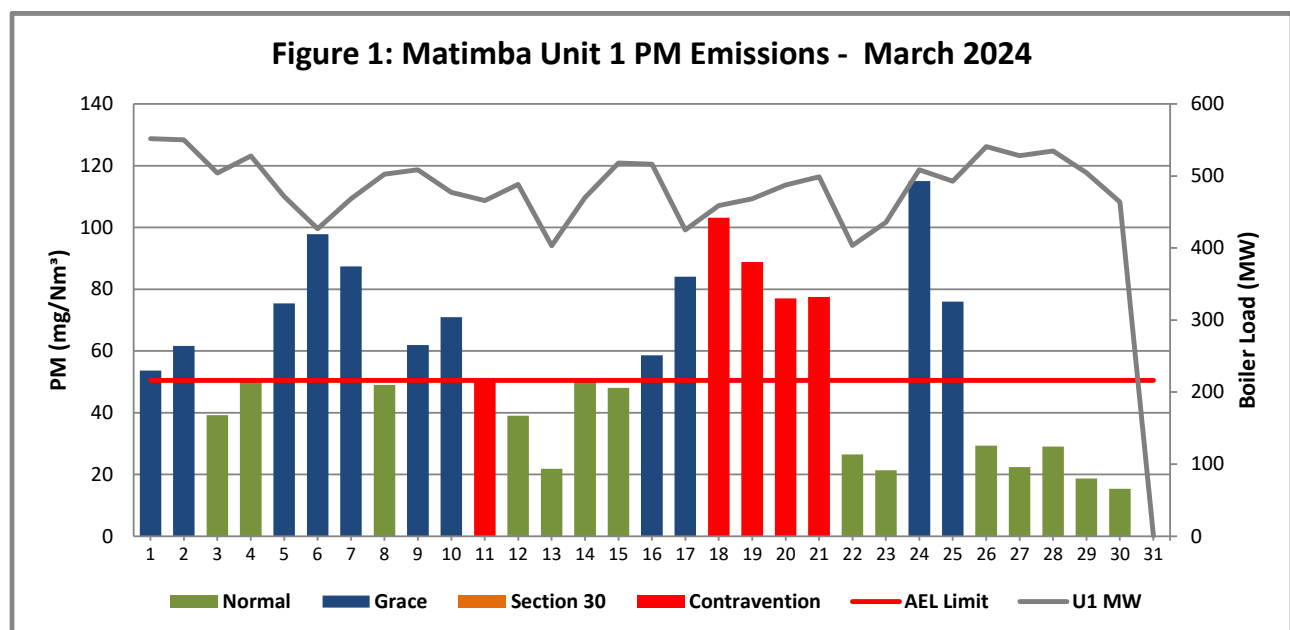


Figure 1: Particulate matter daily average emissions against emission limit for unit 1 for the month of March 2024

Interpretation:

Unit 1 exceeded the daily particulate emission limit of 50mg/Nm³ on 1,2,5 to 7,9 to 11,16 to 21, 24 and 25 March 2024. The exceedances from 11 and 18 to 21 March 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to unavailability of the ash conveyance system that led to ash accumulation on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields).

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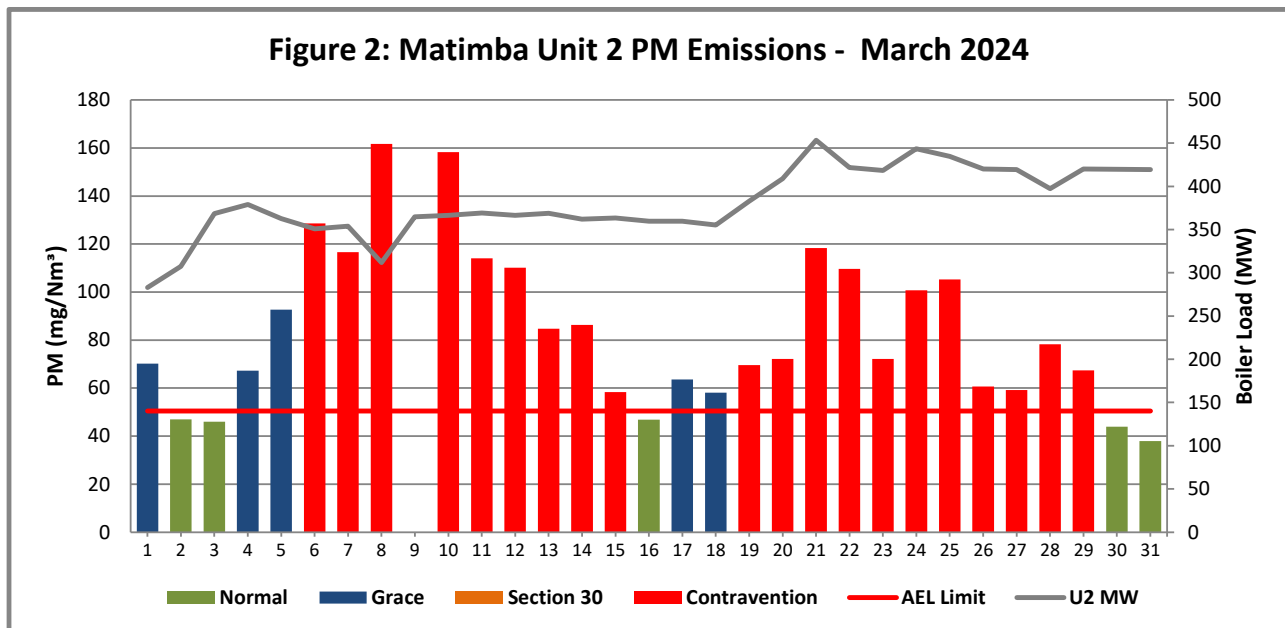
Unit 2 Particulate Emissions

Figure 2: Particulate matter daily average emissions against emission limit for unit 2 for the month of March 2024

Interpretation:

Unit 2 exceeded the daily particulate emission limit of 50mg/Nm³ on 1, 4 to 8, 10 to 15 and 17 to 29 March 2024. The exceedances from 6 to 8, 10 to 15 and 19 to 29 March 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to unavailability of the ash conveyance system that led to ash accumulation on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields).

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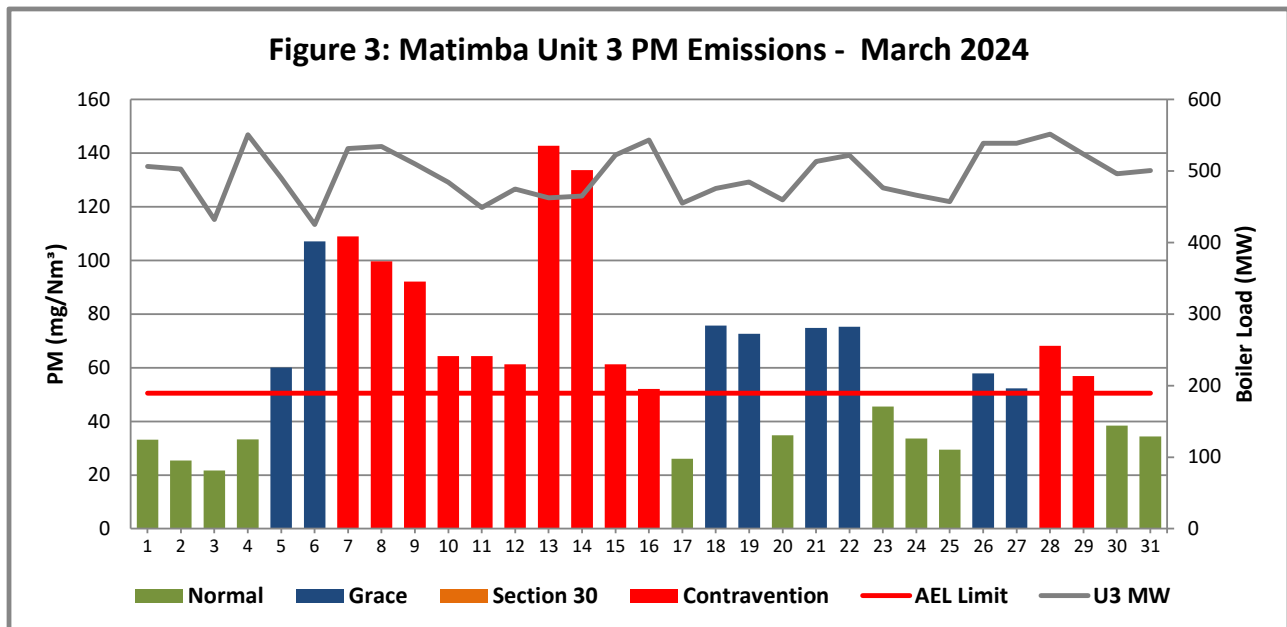
Unit 3 Particulate Emissions

Figure 3: Particulate matter daily average emissions against emission limit for unit 3 for the month of March 2024

Interpretation:

Unit 3 exceeded the daily particulate emission limit of 50mg/Nm³ on 5 to 16, 18,19,21,22 and 26 to 29 March 2024. The exceedances from 7 to 16, 28 and 29 March 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to unavailability of the ash conveyance system that led to ash accumulation on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields).

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Unit 4 Particulate Emissions

Unit 4 Particulate matter

Matimba unit 4 was off for general overall during the reporting period.

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Unit 5 Particulate Emissions

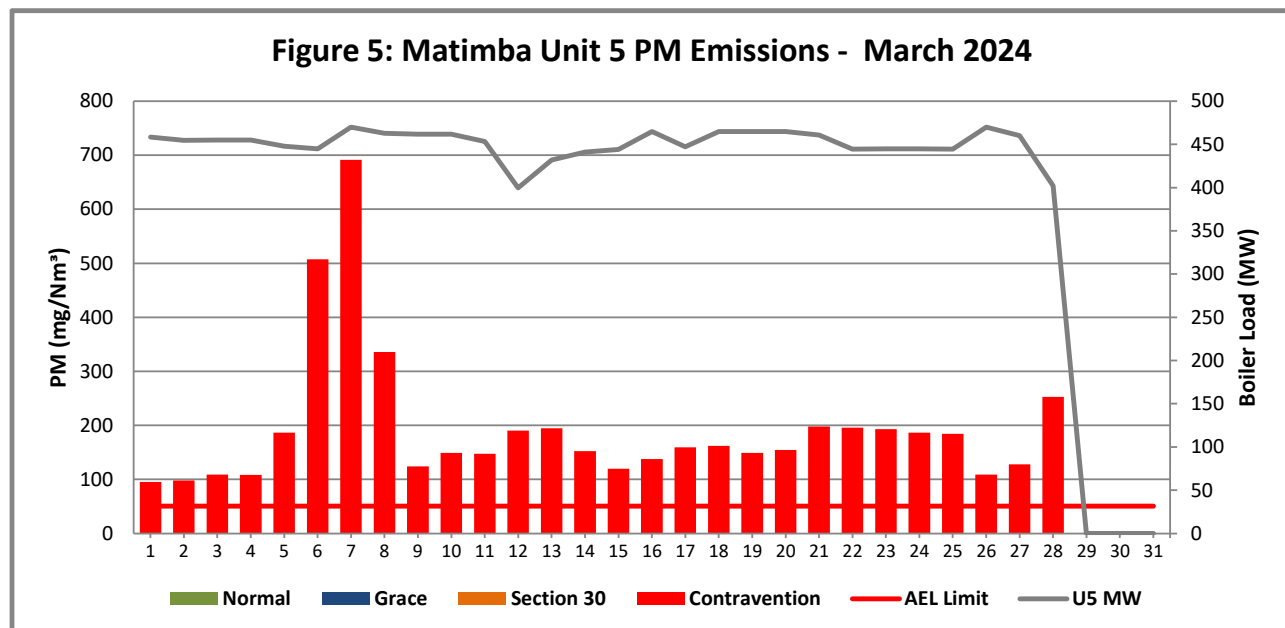


Figure 4: Particulate matter daily average emissions against emission limit for unit 5 for the month of March 2024

Interpretation:

Unit 5 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 1 to 28 March 2024. All exceedances occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to defects on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields). The investigation into the causes of the exceedances were done and corrective measure put in place to correct the root causes.

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Unit 6 Particulate Emissions

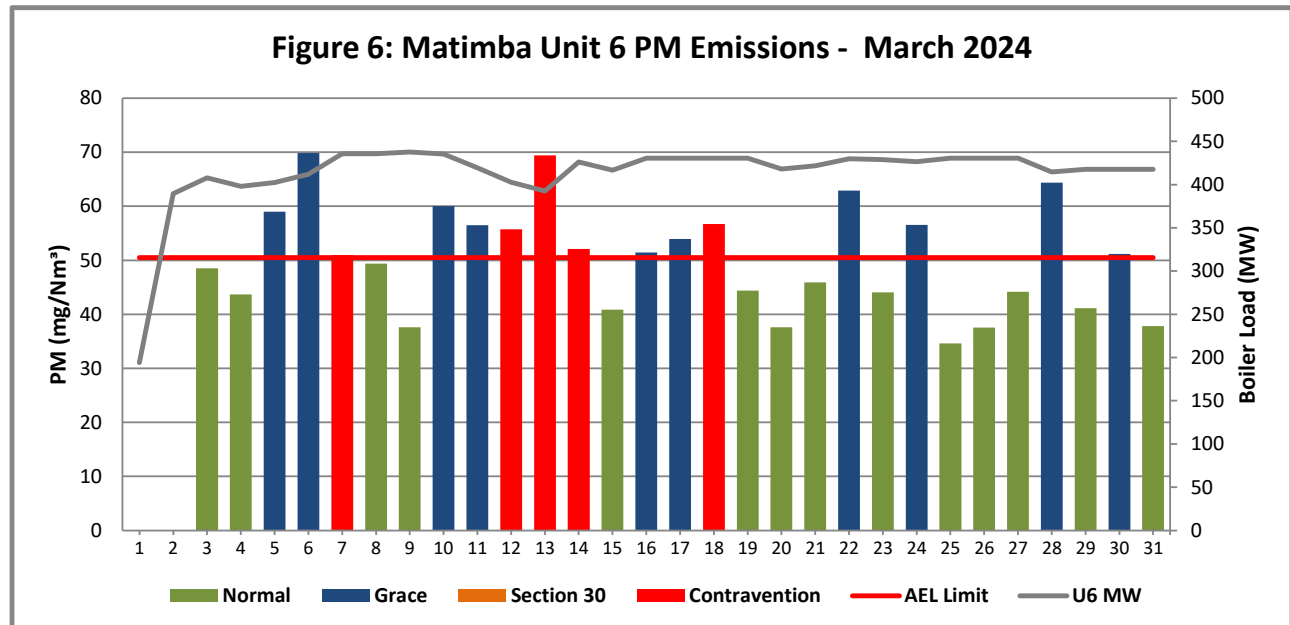


Figure 5: Particulate matter daily average emissions against emission limit for unit 6 for the month of March 2024

Interpretation:

Unit 6 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 5 to 7, 10 to 14, 16 to 18, 22, 24, 28 and 30 March 2024. The exceedances from 7, 12 to 14 and 18 March 2024 occurred outside of the 48-hour grace period and were recorded on the Eskom incident management process as non-compliance to the Atmospheric Emissions Licence. The exceedances were due to defects on the dust handling plants leading to high hopper levels within the flue gas cleaning system and reducing the efficiency of the abatement technology (electrostatic precipitator fields). The investigation into the causes of the exceedances were done and corrective measure put in place to correct the root causes.

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Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in March 2024 as per the AEL requirements.

The quality assurance spot tests were performed on the monitors in August 2023 and the test results are used for the March 2024 emission calculation.

Unit 1 SO₂ Emissions

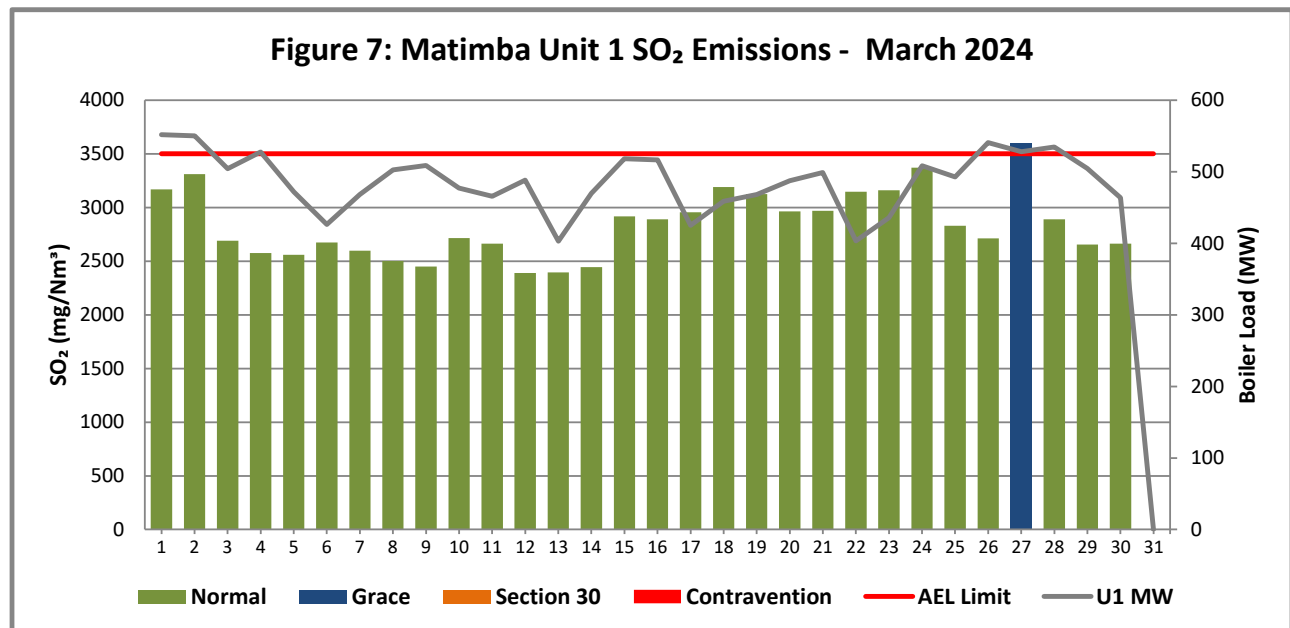


Figure 6: SO₂ daily average emissions against emission limit for unit 1 for the month of March 2024

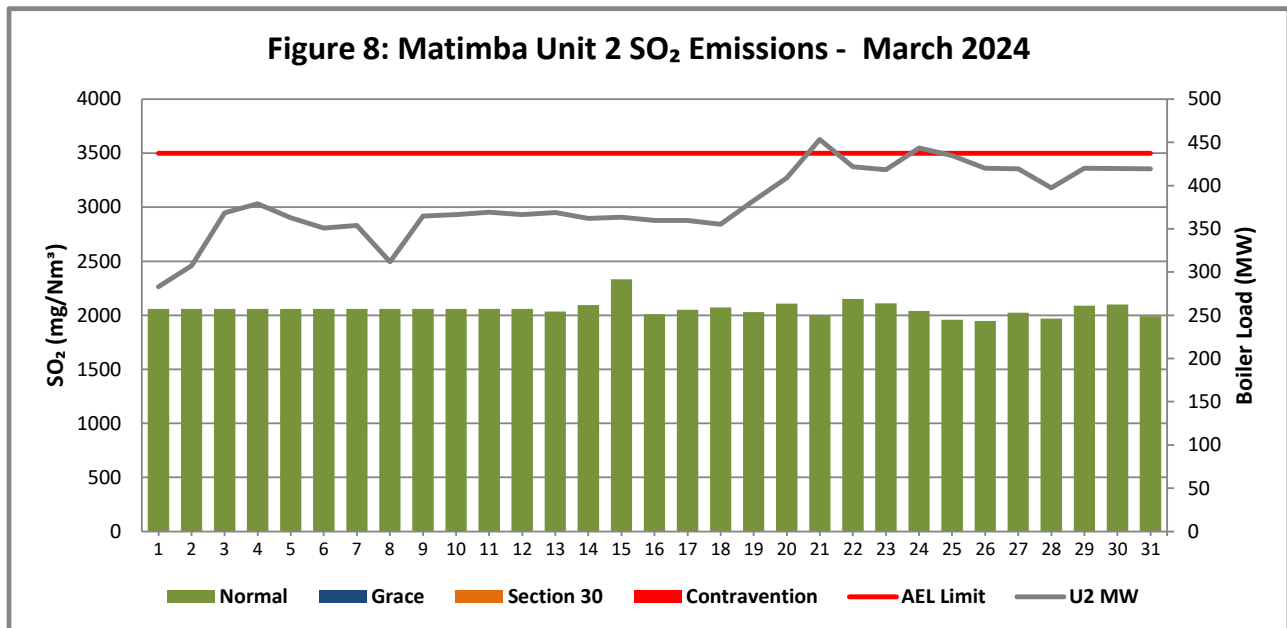
Interpretation:

The exceedance on 27 March 2024 occurred within the 48-hour grace period.

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Unit 2 SO₂ Emissions**Figure 7: SO₂ daily average emissions against emission limit for unit 2 for the month of March 2024****Interpretation:**

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

The gaseous monitors were erratic and averages were used for period 01 to 14 March 2024.

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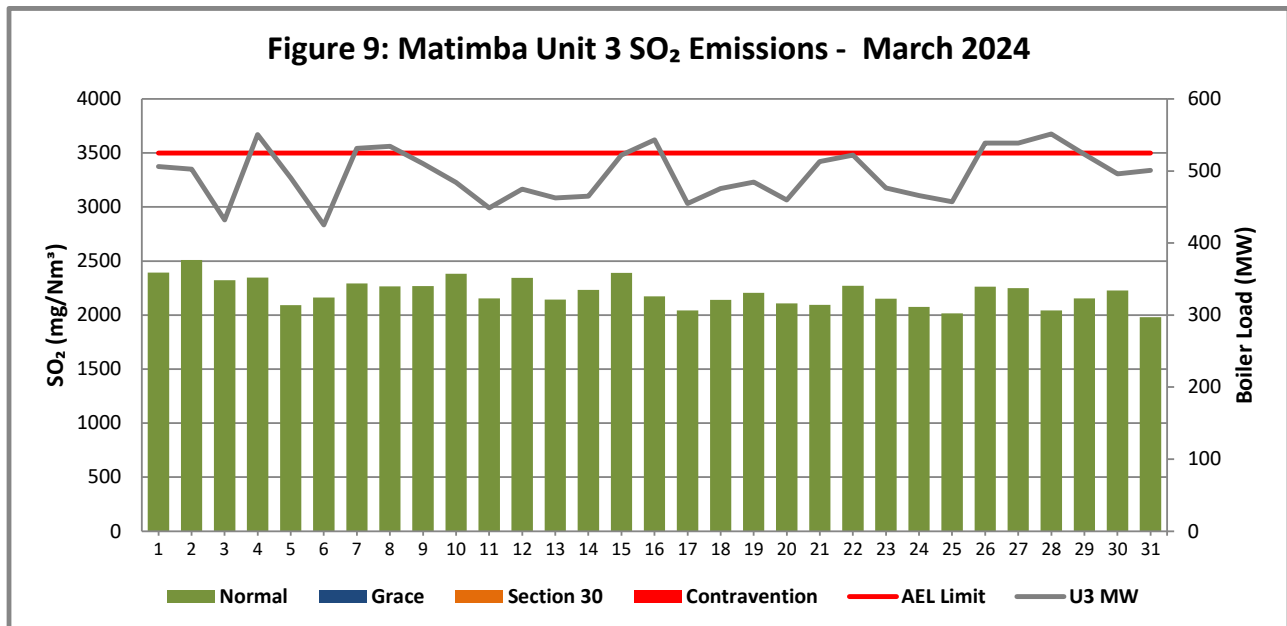
Unit 3 SO₂ Emissions

Figure 8: SO₂ daily average emissions against emission limit for unit 3 for the month of March 2024

Interpretation:

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

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Unit 4 SO₂ Emissions

Matimba unit 4 was off for general overall during the reporting period.

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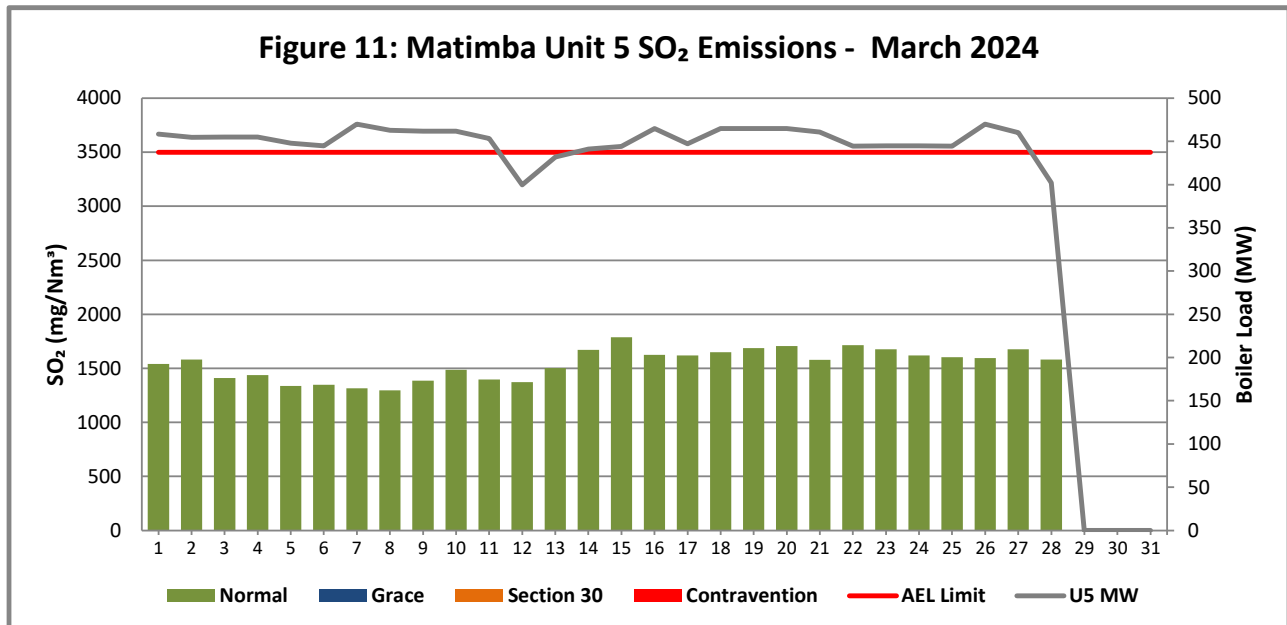
Unit 5 SO₂ Emissions

Figure 9: SO₂ daily average emissions against emission limit for unit 5 for the month of March 2024

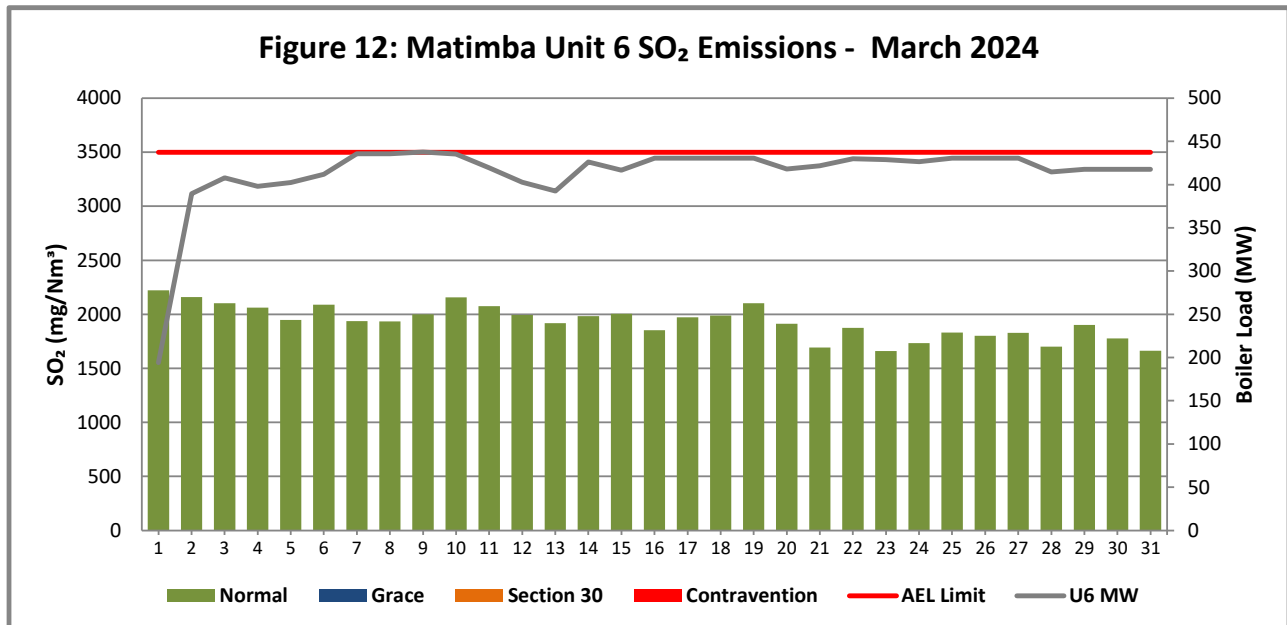
Interpretation:

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

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Unit 6 SO₂ Emissions**Figure 10: SO₂ daily average emissions against emission limit for unit 6 for the month of March 2024****Interpretation:**

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

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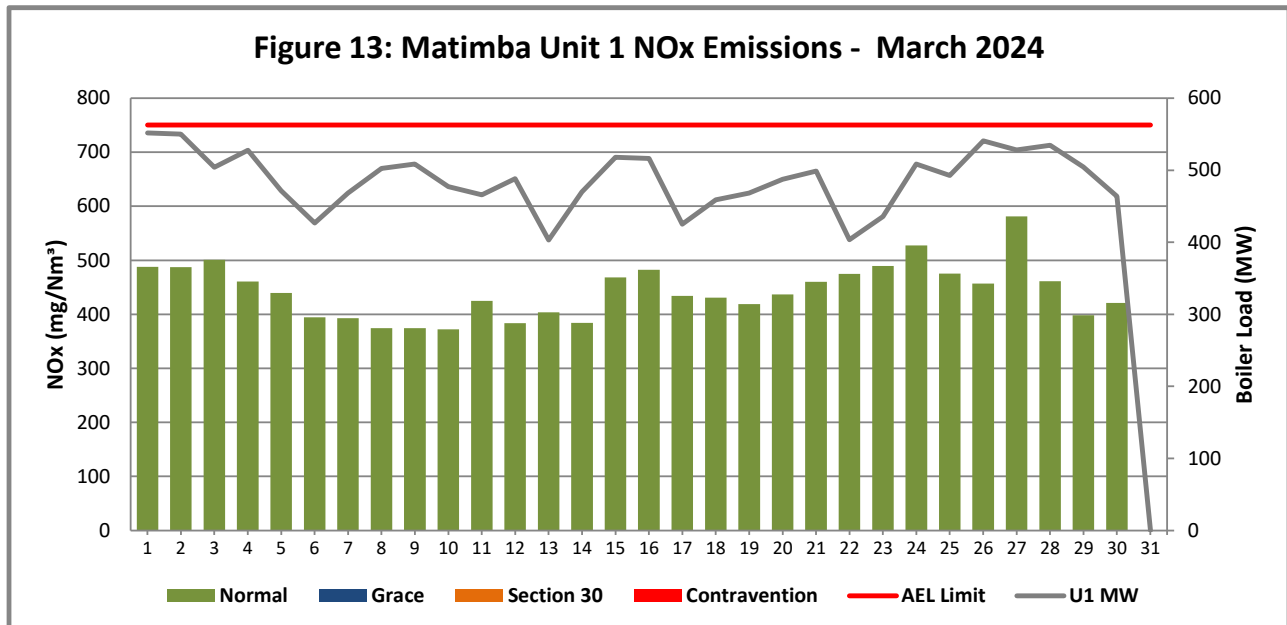
Unit 1 NO_x Emissions

Figure 11: NO_x daily average emissions against emission limit for unit 1 for the month of March 2024

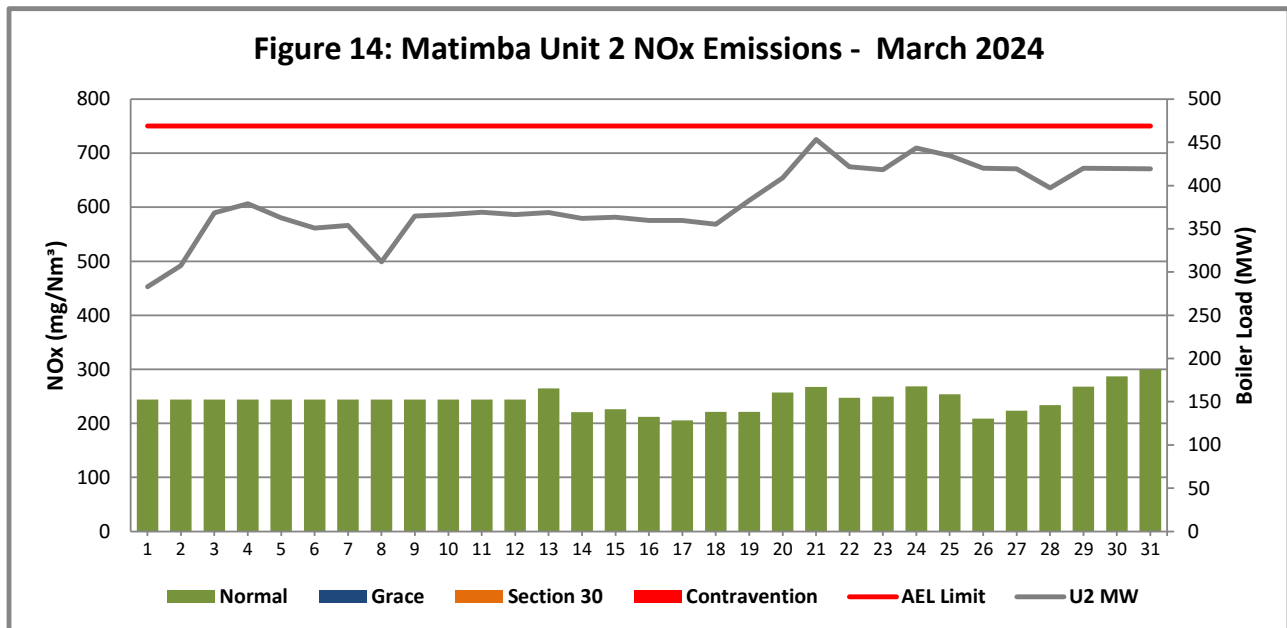
Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

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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 March 2024****Interpretation:**

The monitor was faulty after light up.

The gaseous monitors were erratic and averages were used for period 01 to 14 March 2024.

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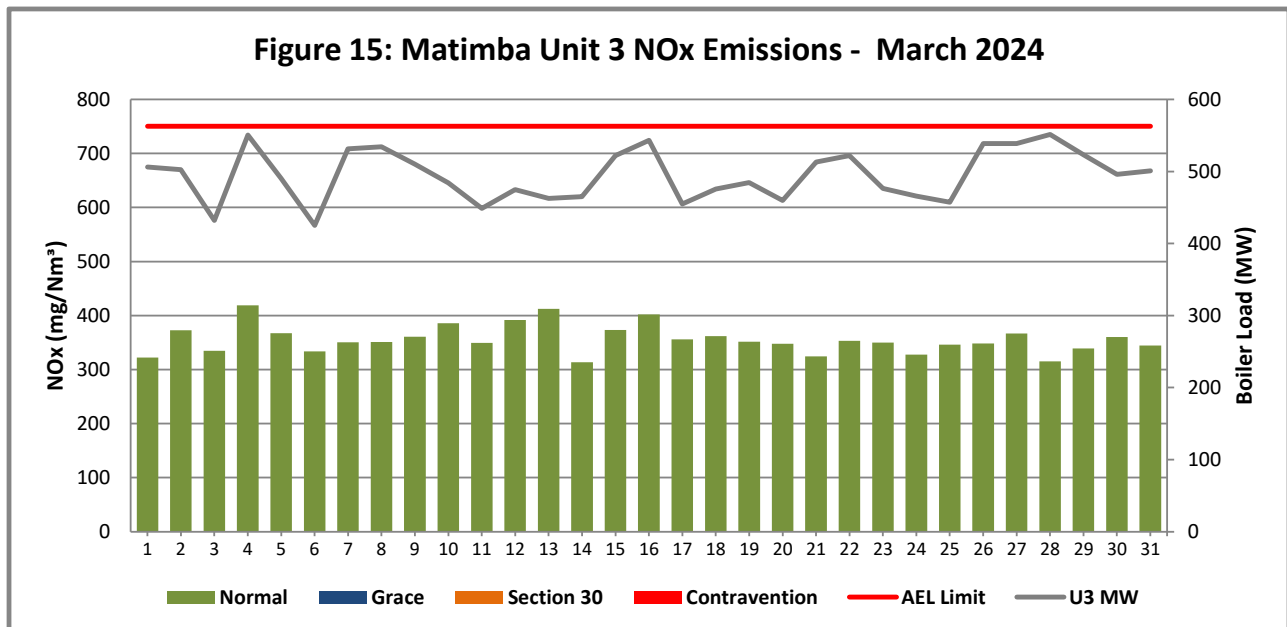
Unit 3 NO_x Emissions

Figure 13: NO_x daily average emissions against emission limit for unit 3 for the month of March 2024

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

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Unit 4 NO_x Emissions

Matimba unit 4 was off for general overall during the reporting period.

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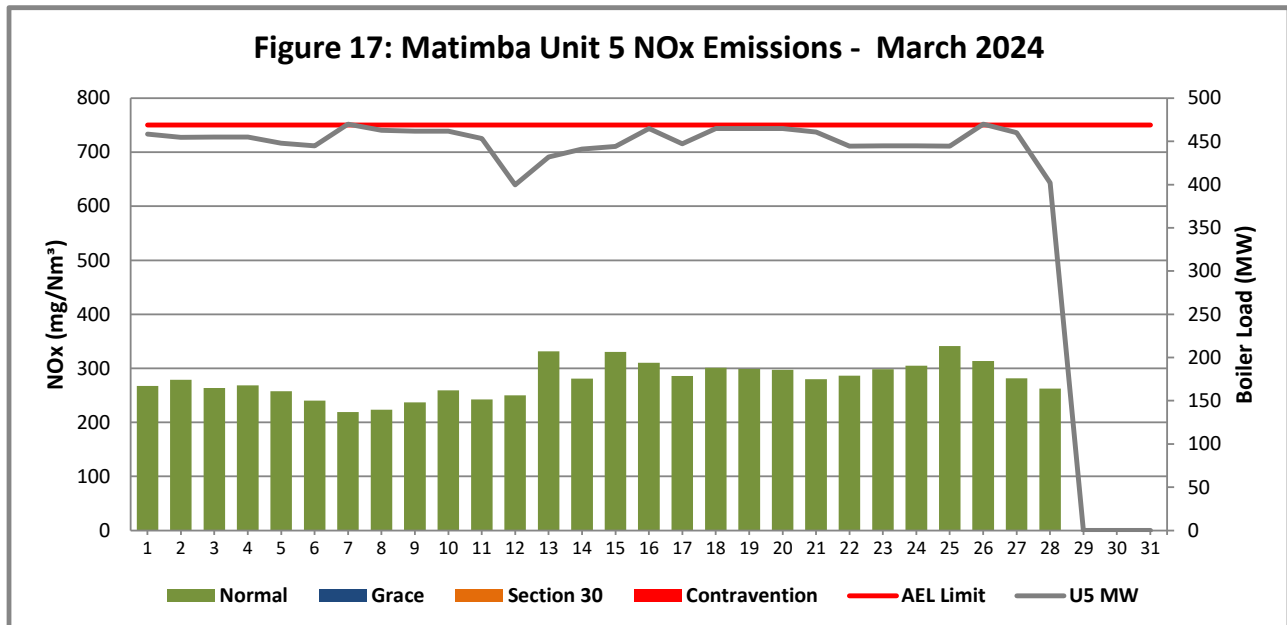
Unit 5 NO_x Emissions

Figure 14: NO_x daily average emissions against emission limit for unit 5 for the month of March 2024

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

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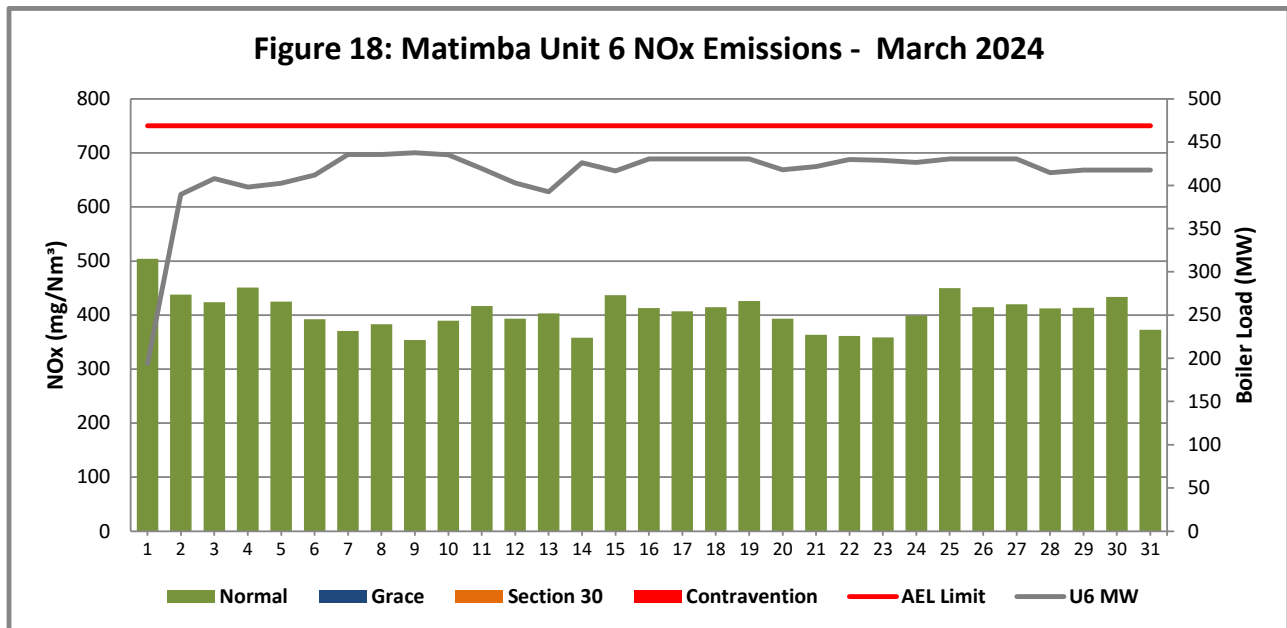
Unit 6 NO_x Emissions

Figure 15: NO_x daily average emissions against emission limit for unit 6 for the month of March 2024

Interpretation:

All daily averages below NO_x emission limit of 750 mg/Nm³.

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Total Volatile Organic Compounds

Table 4: Total volatile compound estimates

CALCULATION OF EMISSIONS OF TOTAL VOLATILE COMPOUNDS FROM FUEL OIL STORAGE TANKS*		
Date:	Tuesday, 16 April 2024	
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	
<p align="center">MONTHLY INPUT DATA FOR THE STATION</p> <p align="center">Please only insert relevant monthly data inputs into the <u>blue cells</u> below</p> <p align="center">Choose from a dropdown menu in the <u>green cells</u></p> <p align="center">The total VOC emissions for the month are in the <u>red cells</u></p> <p align="center">IMPORTANT: Do not change <u>any</u> other cells without consulting the AQ CoE</p>		
MONTH:	March	
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:	2222.206	
Molecular weight of the fuel oil:	166.00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH		
	Data	Unit
Daily average ambient temperature	23.67	°C
Daily maximum ambient temperature	30.21	°C
Daily minimum ambient temperature	17.89	°C
Daily ambient temperature range	12.31	°C
Daily total insolation factor	5.08	kWh/m ² /day
Tank paint colour	Grey/medium	NA
Tank paint solar absorbance	0.68	NA
FINAL OUTPUT:		
	Result	Unit
Breathing losses:	0.55	kg/month
Working losses:	0.06	kg/month
TOTAL LOSSES (Total TVOC Emissions for the month):	0.61	kg/month
<p>*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.</p>		

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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 March 2024

Date	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
2024/03/01	12072.5	3829.69	10907.2	0	9929.48	478.634
2024/03/02	12020.1	6414.27	10783.3	0	9843.21	6501.56
2024/03/03	10996.1	7955.27	9170.13	0	9851.67	8681.76
2024/03/04	11496.2	8183.17	11827.4	0	9855.53	8479.09
2024/03/05	10313.3	7817.92	10512.9	0	9705.62	8608.08
2024/03/06	9199.34	7546.57	9027.46	0	9615.41	8807.29
2024/03/07	10173.1	7624.58	11371.9	0	10202.4	9356.09
2024/03/08	10922.3	3997.95	11471.3	0	10033.5	9378.76
2024/03/09	11112.9	7475.75	10937.9	0	10010.4	9410.86
2024/03/10	10383.9	7914.14	10345.5	0	10012.1	9377.99
2024/03/11	10116.4	7969.55	9553.34	0	9815.27	9000.97
2024/03/12	10634.6	7913.7	10129.1	0	6118.93	8603.19
2024/03/13	8722.99	7982.04	9839.14	0	9308.23	8380.13
2024/03/14	10179.9	7811.43	9905.23	0	9526.57	9123.79
2024/03/15	11278.6	7849.31	11137.2	0	9589.04	8911.07
2024/03/16	11278.4	7770.31	11661	0	10057.9	9227.79
2024/03/17	9751.48	7758.91	9703.48	0	9666.7	9240.82
2024/03/18	9942.83	7655.36	10172.7	0	10061.9	9241.15
2024/03/19	10182.2	8296.45	10387.7	0	10056.2	9250.31
2024/03/20	10584.9	8810.61	9818.54	0	10040.4	8985.72
2024/03/21	10852.6	9839.04	10957.5	0	9970.38	9061.67
2024/03/22	8770.66	9150.75	11200.4	0	9608.65	9255.74
2024/03/23	9397.09	9065.31	10210.6	0	9623.59	9239.4
2024/03/24	11099.4	9633.57	9987.77	0	9610.16	9185.26
2024/03/25	10725.3	9448.18	9765.92	0	7719.02	9270.39
2024/03/26	11812.1	9131.73	11565.1	0	10172.1	9267.43
2024/03/27	11484.8	9110.54	11540.2	0	9971.17	9264.3
2024/03/28	11671	8616.67	11824.9	0	8247.2	8899.61
2024/03/29	11026.9	9118	11250.9	0		8976.18
2024/03/30	7756.57	9115.93	10598.9	0		8979.91
2024/03/31		9121.41	10742.8	0		8994.63

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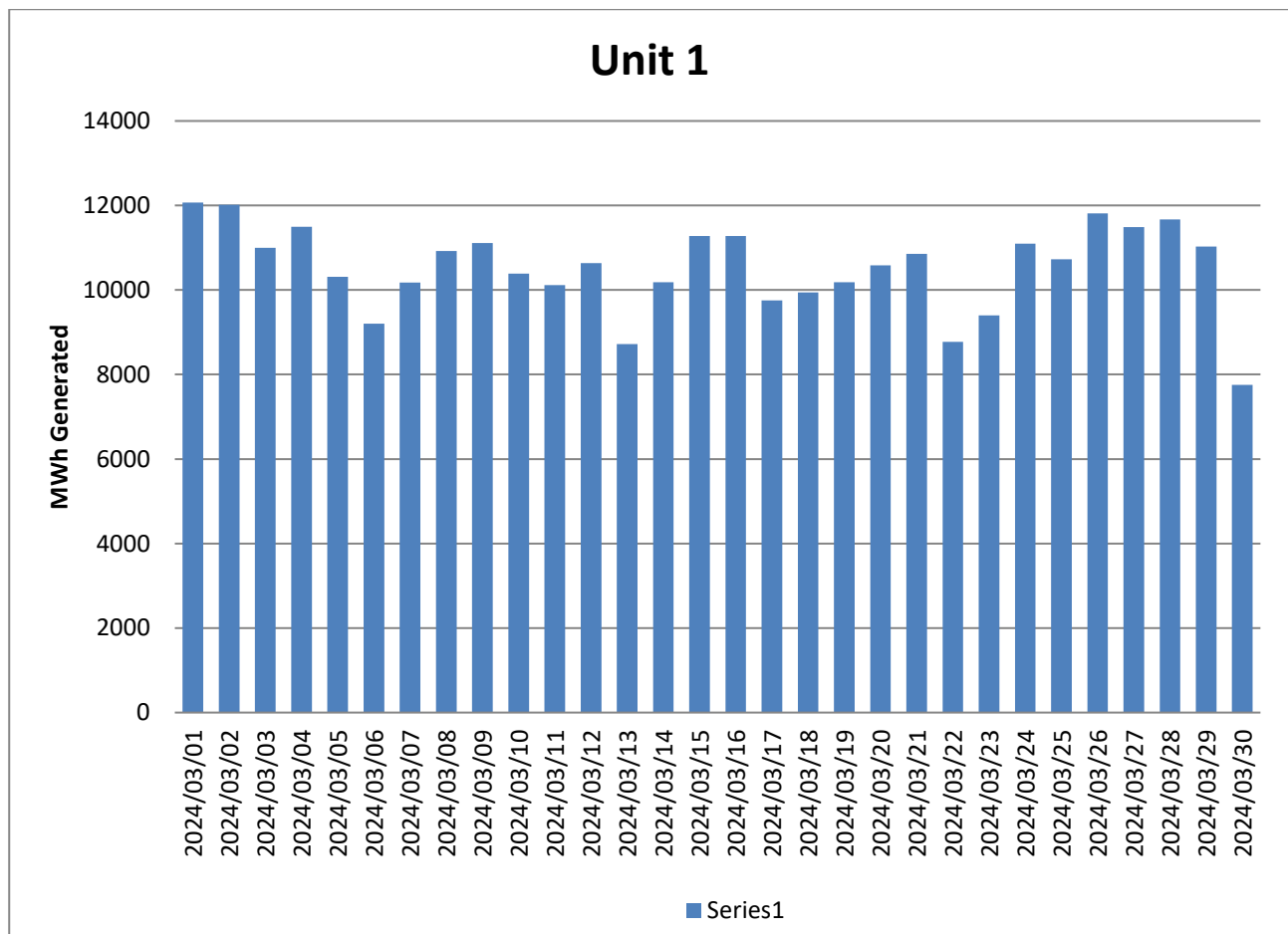


Figure 16: Unit 1 daily generated power in MWh for the month of March 2024

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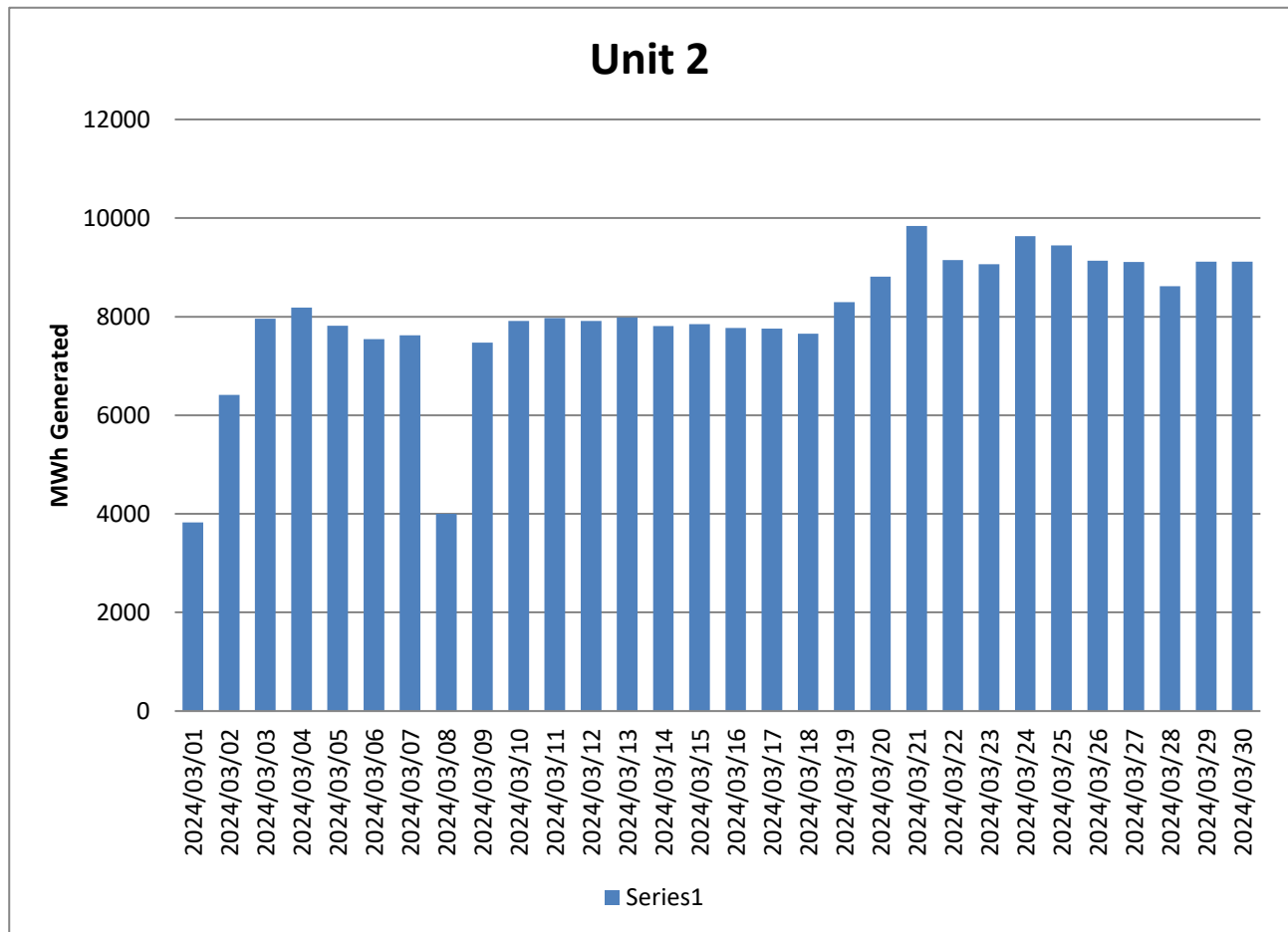


Figure 17: Unit 2 daily generated power in MWh for the month of March 2024

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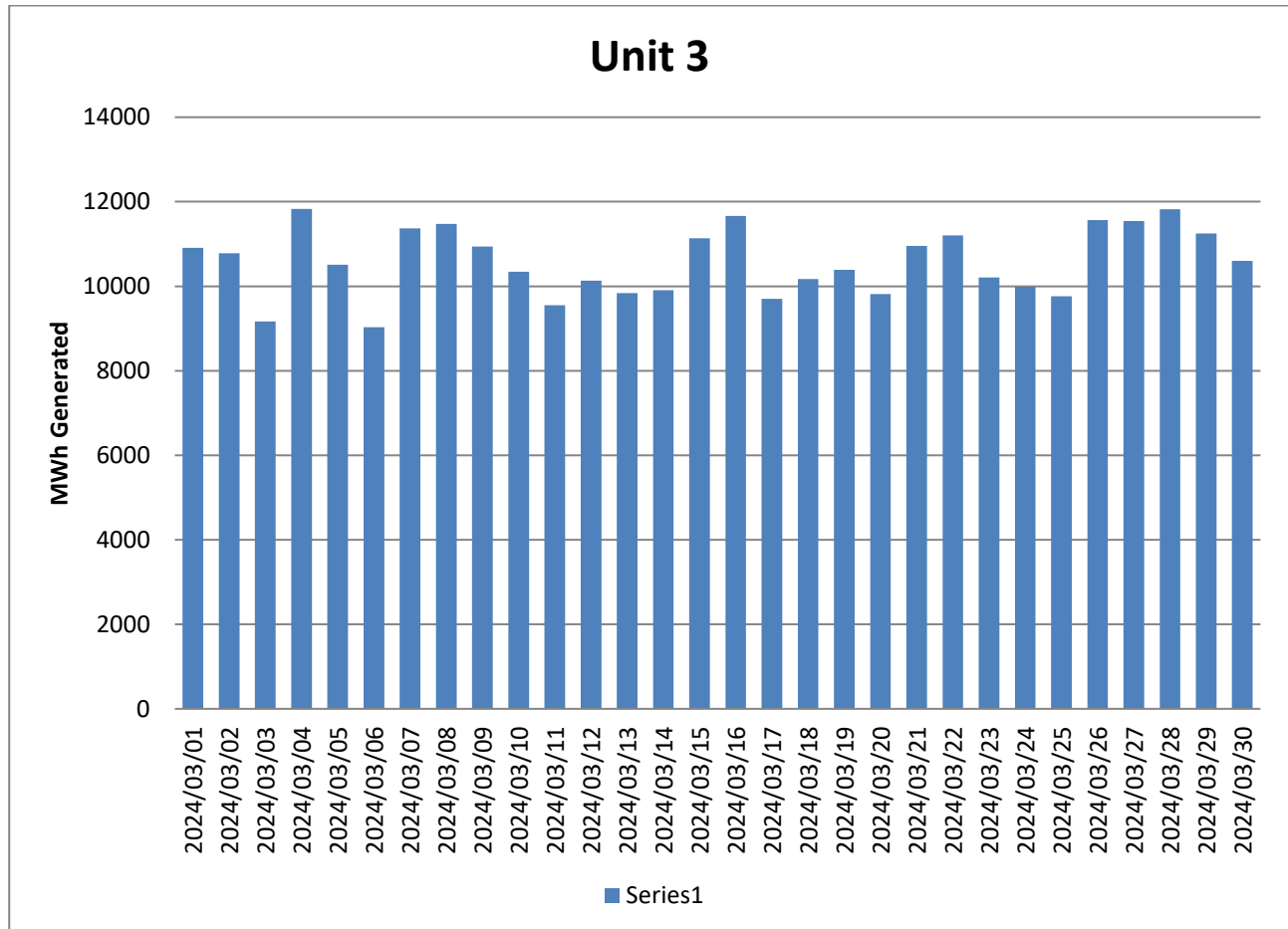


Figure 18: Unit 3 daily generated power in MWh for the month of March 2024

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Unit 4

Unit 4 off load

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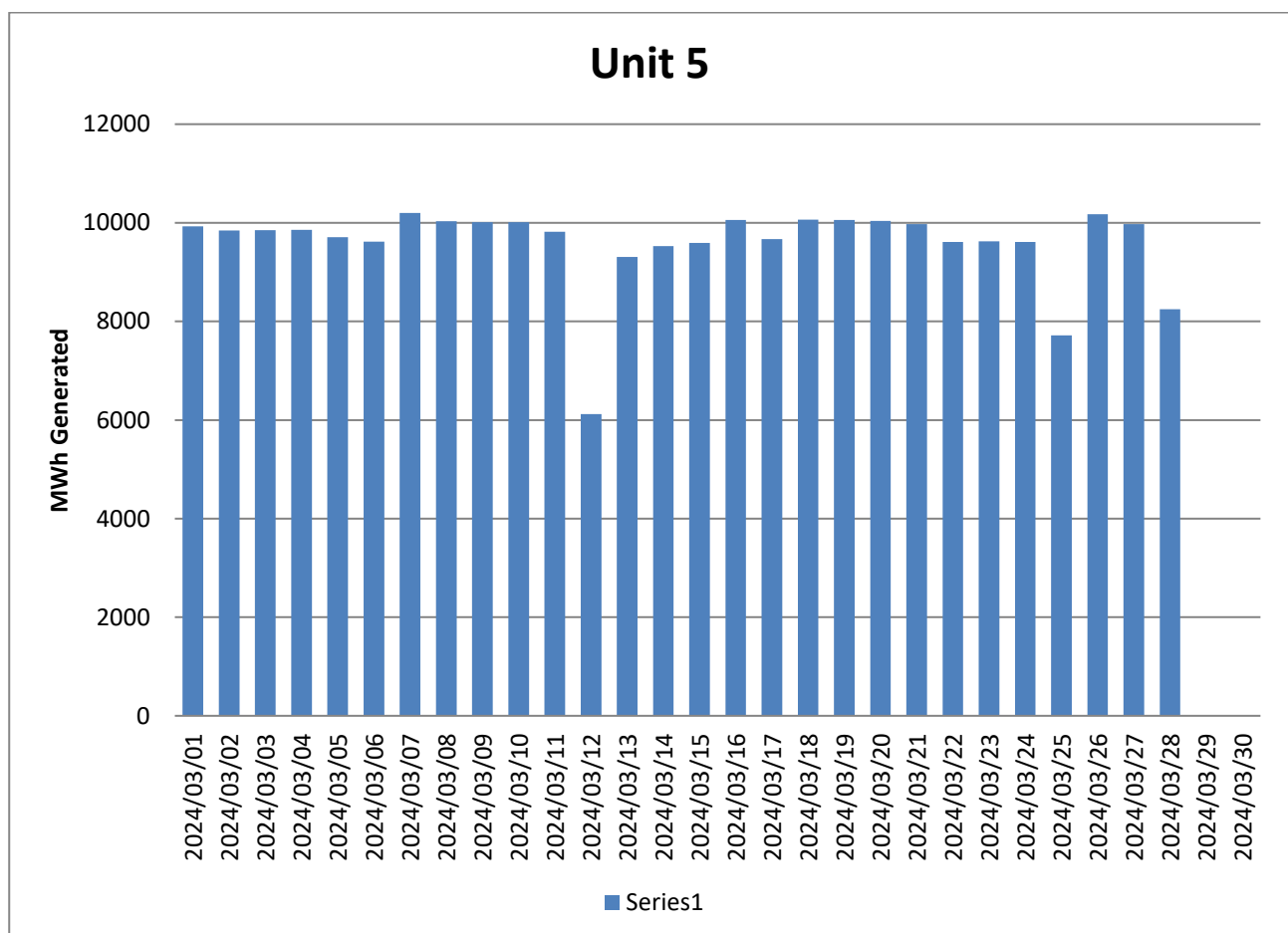


Figure 19: Unit 5 daily generated power in MWh for the month of March 2024

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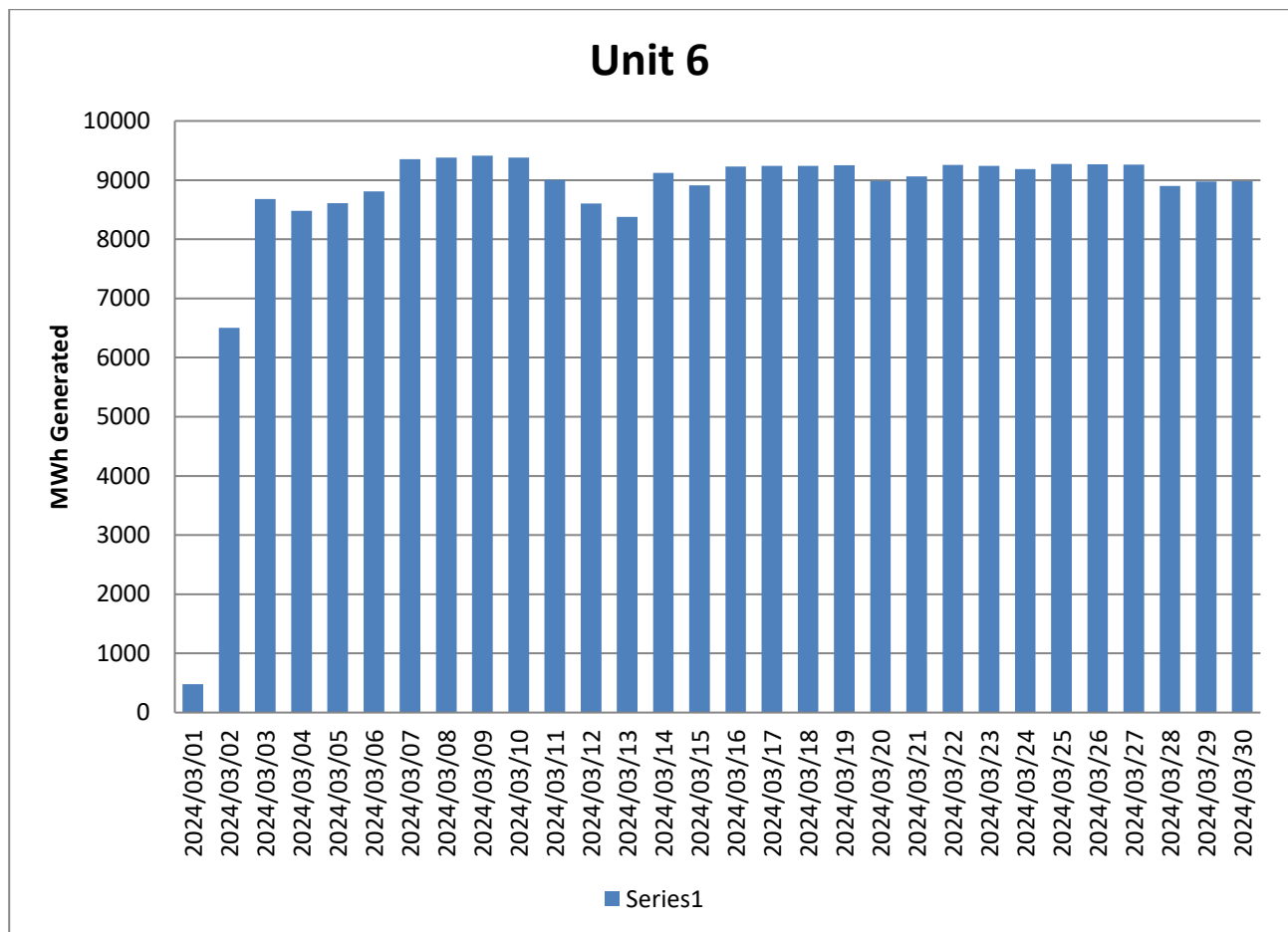


Figure 20: Unit 6 daily generated power in MWh for the month of March 2024

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2.5 Pollutant Tonnages

The emitted pollutant tonnages for March 2024 are provided in table 6.

Table 6: Pollutant tonnages for the month of March 2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	105.7	5 353.5	837.8
Unit 2	136.8	3 623.5	430.9
Unit 3	142.7	5 061.3	816.0
Unit 4	Off	Off	Off
Unit 5	314.5	2 651.3	479.1
Unit 6	69.4	2 767.3	580.1
SUM	769.1	19 456.9	3 144.0

2.6 Operating days in compliance to PM AEL Limit

Table 7: Operating days in compliance with PM AEL limit of March 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
Unit 1	14	11	0	5	16	56.7
Unit 2	5	5	0	20	25	83.5
Unit 3	11	8	0	12	20	62.5
Unit 4	Off	Off	Off	Off	Off	Off
Unit 5	0	0	0	28	28	193.5
Unit 6	14	10	0	5	15	50.3
SUM	44	34	0	70	104	

2.7 Operating days in compliance to SO_x AEL Limit

Table 8: Operating days in compliance with SO_x AEL limit of March 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Unit 1	29	1	0	0	1	2 839.5
Unit 2	31	0	0	0	0	2 058.9
Unit 3	31	0	0	0	0	2 209.4
Unit 4	Off	Off	Off	Off	Off	Off
Unit 5	28	0	0	0	0	1 543.0
Unit 6	31	0	0	0	0	1 931.8
SUM	150	1	0	0	1	

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2.8 Operating days in compliance to NOx AEL Limit

Table 9: Operating days in compliance with NOx AEL limit of March 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	30	0	0	0	0	443.3
Unit 2	31	0	0	0	0	244.0
Unit 3	31	0	0	0	0	355.9
Unit 4	Off	Off	Off	Off	Off	Off
Unit 5	28	0	0	0	0	279.0
Unit 6	31	0	0	0	0	406.2
SUM	151	0	0	0	0	

2.9 Reference values

Table 10: Reference values for data provided, March 2024

Compound / Parameter	Units of Measure	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oxygen	%	8.68	6.63	6.98	Off	6.70	10.91
Moisture	%	4.37	4.26	4.10	Off	4.32	2.09
Velocity	m/s	25.5	20.0	26.5	Off	21.0	25.4
Temperature	°C	129.8	124.4	127.5	Off	117.9	158.4
Pressure	mBar	931.3	924.0	917.0	Off	948.2	912.1

2.10 Continuous Emission Monitors

2.10.1 Reliability

Continuous emission monitors were available for more than 80% of the reporting period. The emitted pollutant tonnages for March 2024 are provided in table 6.

Table 11: Average percentage (%) availability of monitors for the month of March 2024.

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	100.0	99.9	99.9
Unit 2	100.0	59.4	57.7
Unit 3	100.0	99.9	99.9
Unit 4	Off	Off	Off
Unit 5	93.7	99.9	99.9
Unit 6	100.0	98.9	98.7

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2.10.2 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

- Off load.

Unit 5

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

Unit 6

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

2.10.3 Sampling dates and times

Table 12: Dates of last full conducted CEMS verification tests for PM for unit 4 and 6 only

Name of service provider:	Stacklabs Environmental Services CC
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Address of service provider:		10 Chisel Street Boltonia Krugersdorp 1739		
Stack/ Unit	PM	SO ₂	NO _x	CO ₂
1	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
2	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
3	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
4	2021/07/13 14h31	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
5	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13
6	2020/09/09 06h41	New sampling tests in table 13	New sampling tests in table 13	New sampling tests in table 13

Note: The CEMS verification tests for PM, SO₂ and NO_x were performed in October 2022 and failed. The spot tests were done in August 2023.

Table 13: Dates of last conducted CEMS Spot verification tests for PM, SO₂ and NO_x (without unit 4 and 6 PMs)

Name of service provider:		Levego Environmental services		
Address of service provider:		Building R6 Pineland site Ardeer Road Modderfontein 1645		
Stack/ Unit	PM	SO ₂	NO _x	CO ₂
1	2023/08/01 19h33	2023/08/01 19:33	2023/08/01 19:33	2023/08/01 19:33
2	2023/07/29 21:17	2023/07/29 21:17	2023/07/29 21:17	2023/07/29 21:17
3	2023/08/06 03:00	2023/08/06 03:00	2023/08/06 03:00	2023/08/06 03:00
4	Dates in table 12 above	2023/08/04 19:39	2023/08/04 19:39	2023/08/04 19:39
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 12 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 units 4 and 6 failed and old curves are still in use.

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2.11 Units Start-up information

Table 14: Start-up information

Unit	2	
Fires in	2024/03/01	12h31
Synchronization with Grid	2024/03/01	19h10
Emissions below limit	2024/03/02	13h00
Fires in, to synchronization	6h39	HOURS
Synchronization to < Emission limit	17h50	HOURS

Unit	2	
Fires in	2024/03/08	12h19
Synchronization with Grid	2024/03/09	01h04
Emissions below limit	2024/03/15	01h00
Fires in, to synchronization	12h45	HOURS
Synchronization to < Emission limit	143h56	HOURS

Unit	5	
Fires in	2024/03/12	04h20
Synchronization with Grid	2024/03/12	10h31
Emissions below limit	2024/03/29	13h00
Fires in, to synchronization	6h11	HOURS
Synchronization to < Emission limit	410h29	HOURS
Unit	6	
Fires in	2024/03/01	21h04

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Synchronization with Grid	2024/03/02	04h35
Emissions below limit	2024/03/02	08h00
Fires in, to synchronization	7h31	HOURS
Synchronization to < Emission limit	3h25	HOURS

2.12 Emergency generation

Table 15: Emergency generation

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Emergency Generation hours declared by national Control	744	744	744	Off	744	744
Emergency Hours declared including hours after standing down	715.35	731.25	744.00	Off	671.98	730.53
Days over the Limit during Emergency Generation	16	25	20	0	28	15

During the period under review all Units were on emergency generation in force from 01 March 2024 until 31 March 2024.

2.13 Complaints register.

Table 16: Complaints

Source Code/ Name	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

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2.14 Air quality improvements and social responsibility conducted.

Air quality improvements

None

Social responsibility conducted.

None

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2.15 Ambient air quality monitoring

Ambient air quality monitoring report was not available at the time of publishing this report.

2.16 Electrostatic precipitator and Sulphur plant status

Unit 1

- 7 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventive maintenance done during the month.

Unit 2

- Unit returned to service.
- No abnormalities on the SO3 plant. Preventive maintenance done during the month.

Unit 3

- 2 field out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.

Unit 4

- Off load.

Unit 5

- 10 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.

Unit 6

- 5 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.

SO3 common plant

- No abnormalities on the sulphur storage plant.

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2.17 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

3. Attachments

None

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



GENERAL MANAGER: MATIMBA POWER STATION

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