	Technical and Generic Report	Matimba Power Station
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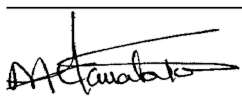
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Figure 19: Unit 4 daily generated power in MWh for the month of November 202330

Figure 20: Unit 6 daily generated power in MWh for the month of November 202331

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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 November 2023.



During the period under review, Matimba experienced sixty-one (61) exceedances of the daily particulate matter emission limit (50mg/Nm³), twenty-seven (27) 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 eighteen (18) 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.

The flue gas conditioning plant (SO₃ Plant) availability for the month of November 2023 was 94%. Issues that affected the availability were addressed and the plants returned to operation.

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	904 130
	Fuel Oil	Tons/month	1 200	1548,087
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Production Rate
	Energy	MW	4000	2208,86

The consumption rates for the month of November 2023 exceeded the permitted maximum limits of 1200T. The exceedance was caused by units' constant combustion support during low loads.

2.2 Abatement technology

Table 2: Abatement Equipment Control Technology Utilised

Associated Unit	Technology Type	Minimum utilisation (%)	Efficiency (%)
Unit 1	Electrostatic Precipitator	100%	99,999%
Unit 2	Electrostatic Precipitator	100%	99,995%
Unit 3	Electrostatic Precipitator	100%	99,999%
Unit 4	Electrostatic Precipitator	100%	99,999%
Unit 5	Electrostatic Precipitator	100%	99,998%
Unit 6	Electrostatic Precipitator	100%	99,999%
Associated Unit	Technology Type	Minimum utilisation (%)	Actual Utilisation (%)
Unit 1	SO ₃ Plant	100%	91%
Unit 2	SO ₃ Plant	100%	57%
Unit 3	SO ₃ Plant	100%	99%
Unit 4	SO ₃ Plant	100%	99%
Unit 5	SO ₃ Plant	100%	98%
Unit 6	SO ₃ Plant	100%	96%

Flue gas conditioning plant availability was below the required 100% for all six (06) units due to unplanned breakdowns and defects. Defects were addressed and plants returned to service. Unit 2 was taken down on outage on 11 November 2023

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Table 3: Energy Source Material Characteristics.

	Characteristic	Stipulated Range (Unit)	Monthly Average Content
Coal burned	Sulphur Content	1.6%	1,22%
	Ash Content	40%	34,97%

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 spot test were performed in August 2023 and the results were applied and used for gaseous emissions calculation for November 2023. The spot test results for PM emissions have failed the minimum requirements outlined in the Eskom emission calculation Methodology and were not applied.

Unit 1 Particulate Emissions

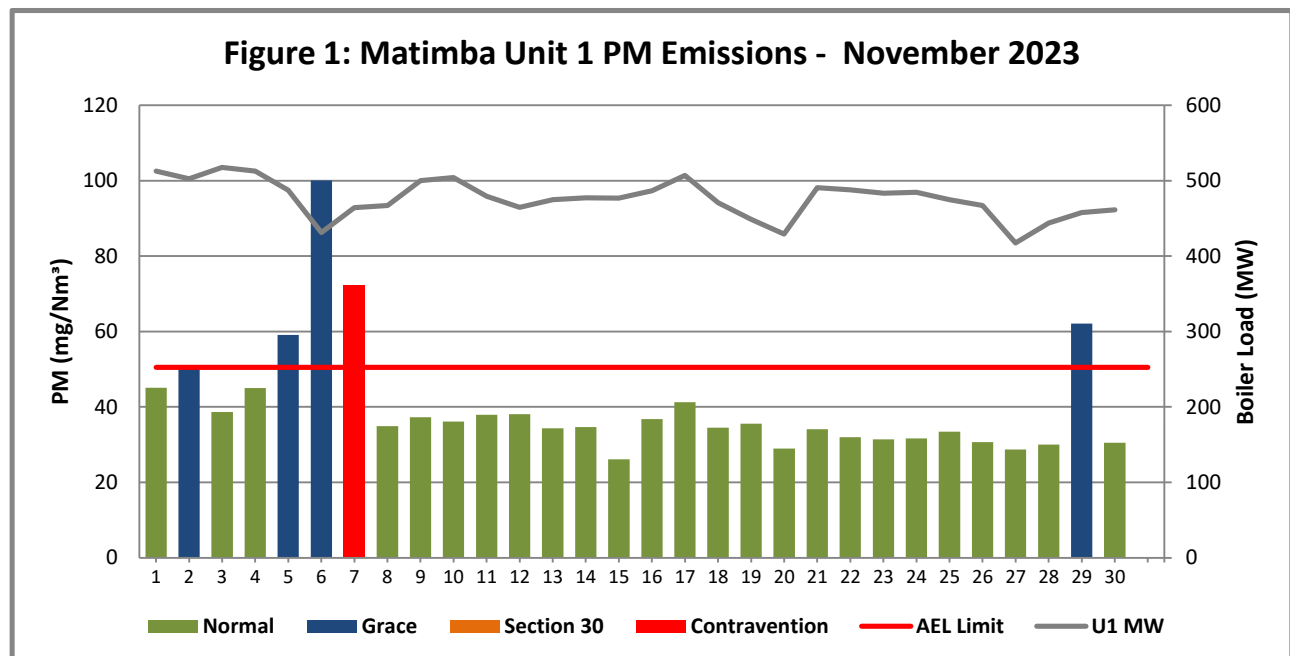


Figure 1: Particulate matter daily average emissions against emission limit for unit 1 for the month of November 2023

Interpretation:

Unit 1 exceeded the daily particulate emission limit of 50mg/Nm³ on 2,5,6 and 29 November 2023. The exceedance was 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). All exceedances remained within the 48-hour grace period.

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Unit 2 Particulate Emissions

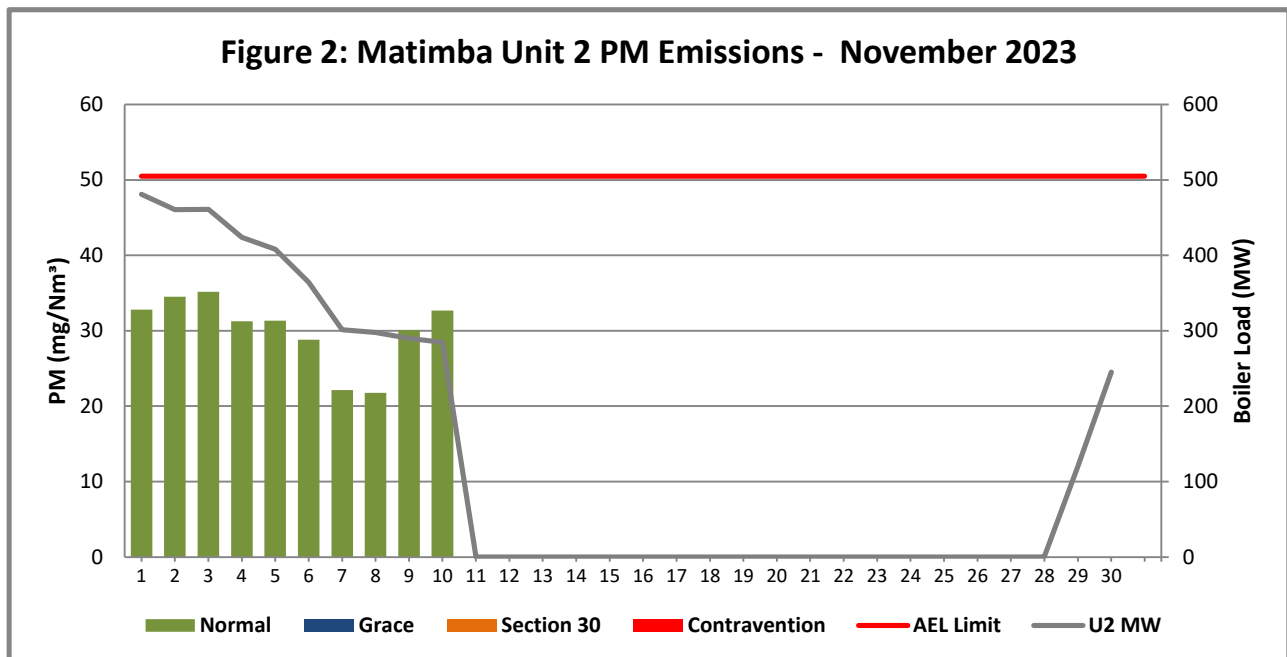


Figure 2: Particulate matter daily average emissions against emission limit for unit 2 for the month of November 2023

Interpretation:

No exceedances were recorded for daily particulate emission on Unit 2 from the 01 November 2023 to the 20 November 2023 when the unit was taken off for outage.

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Unit 3 Particulate Emissions

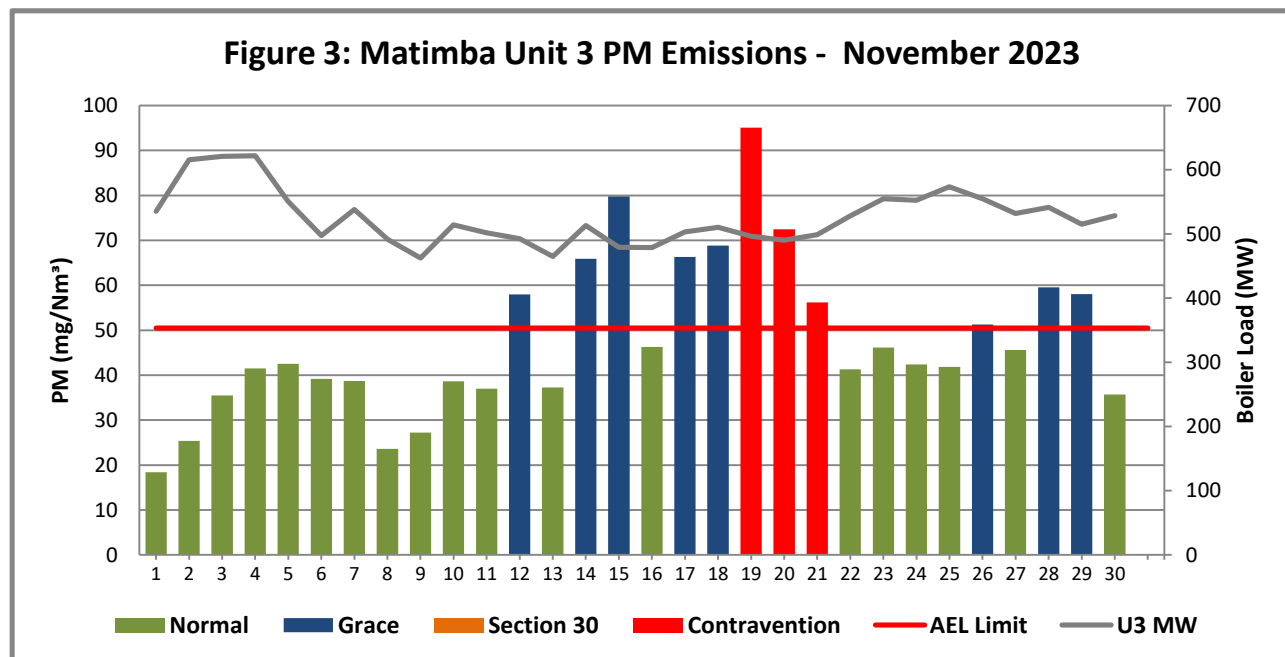


Figure 3: Particulate matter daily average emissions against emission limit for unit 3 for the month of November 2023

Interpretation:

Unit 3 exceeded the daily particulate emission limit of 50mg/Nm³ on 12,14,15,17 to 22,26,28 and 29 November 2023. Exceedances of 19 to 22 November 2023 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

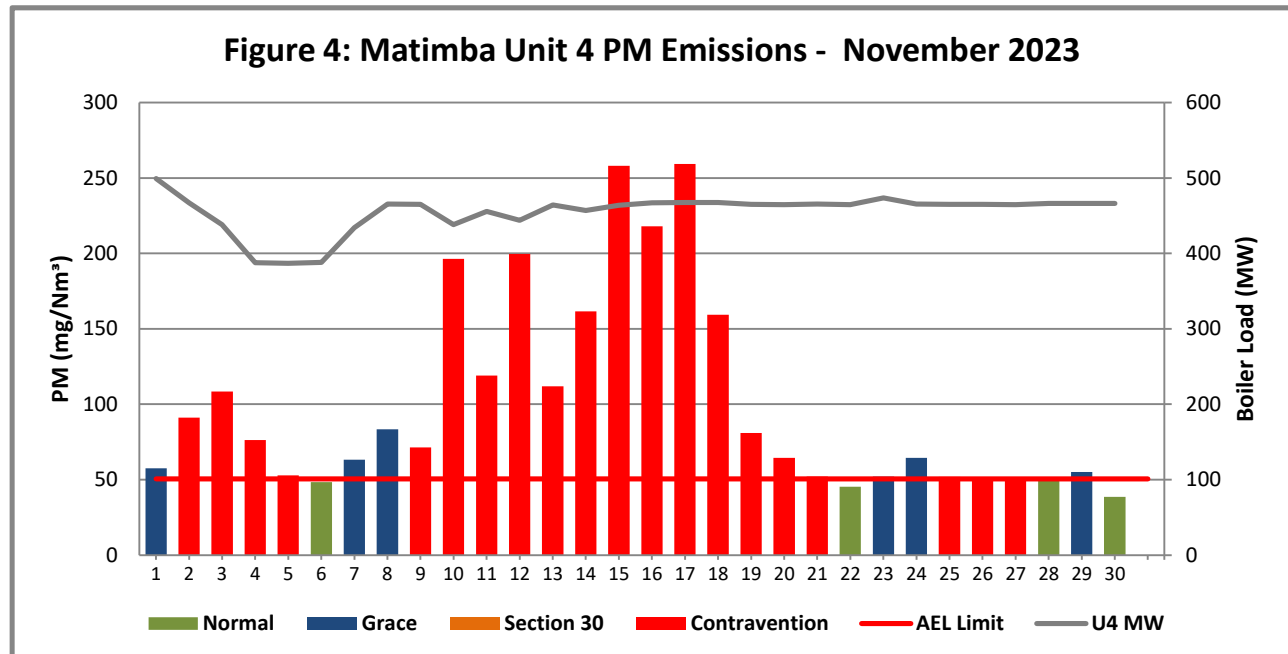


Figure 4: Particulate matter daily average emissions against emission limit for unit 4 for the month of November 2023

Interpretation:

Unit 4 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 2 to 6, 9 to 22 and 25 to 30 November 2023. Exceedances of 2 to 6, 9 to 22 and 25 to 28 November 2023 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 5 Particulate Emissions

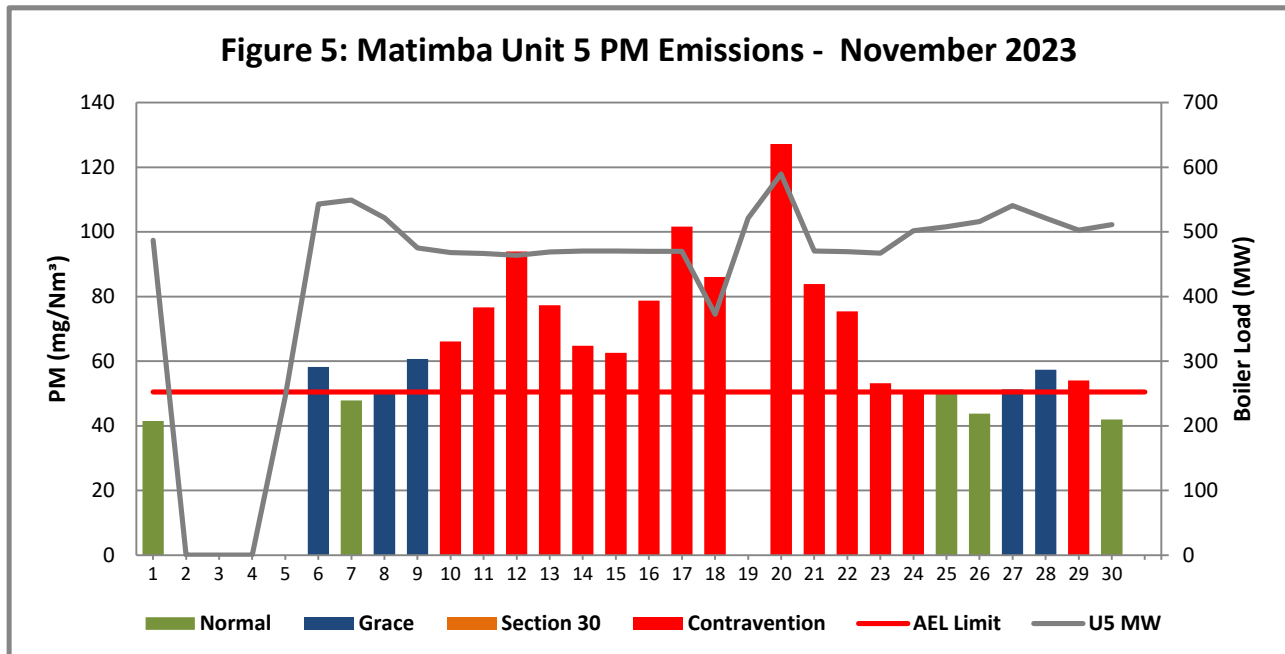


Figure 5: Particulate matter daily average emissions against emission limit for unit 5 for the month of November 2023

Interpretation:

Unit 5 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 6,8 to 25 and 27 to 29 November 2023. Exceedances of 10 to 25 November 2023 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

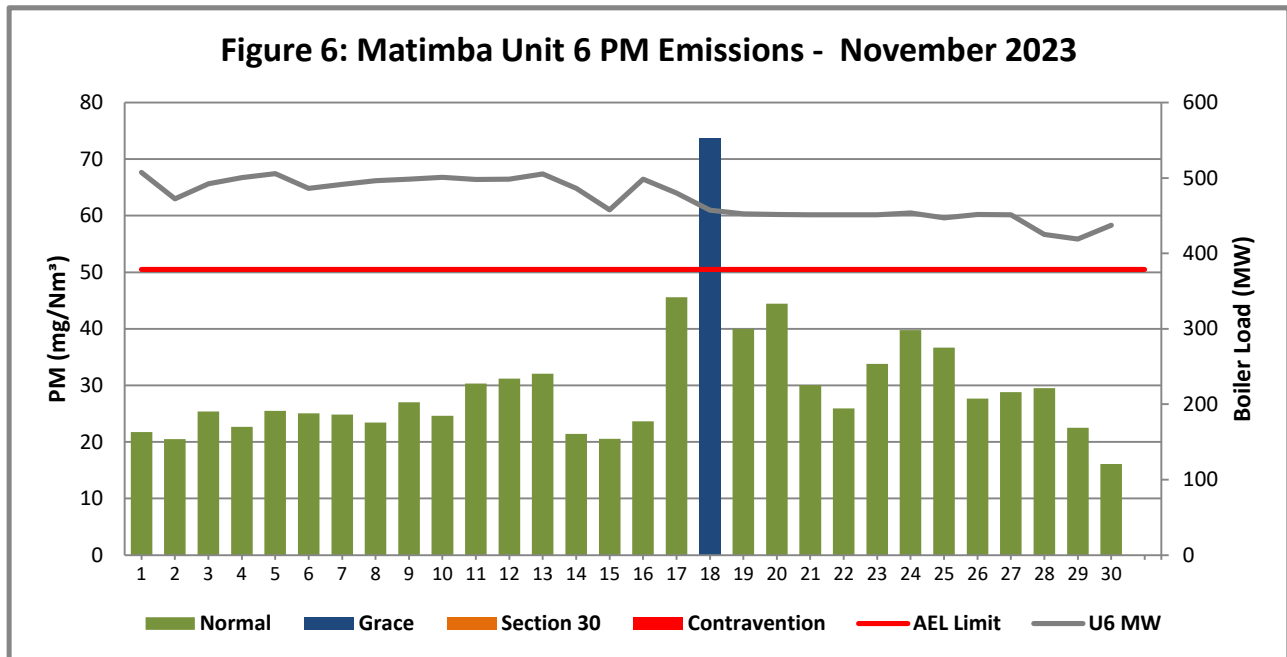


Figure 6: Particulate matter daily average emissions against emission limit for unit 6 for the month of November 2023

Interpretation:

Unit 6 Particulate matter exceeded the daily limit of 50 mg/Nm³ on 18 November 2023. Exceedances occurred within the 48-hour grace period.

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2.3.2 Gaseous Emissions

Gaseous emissions analyzers calibration for all 6 units were performed in November 2023 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 November 2023 emission calculation.

Unit 1 SO₂ Emissions

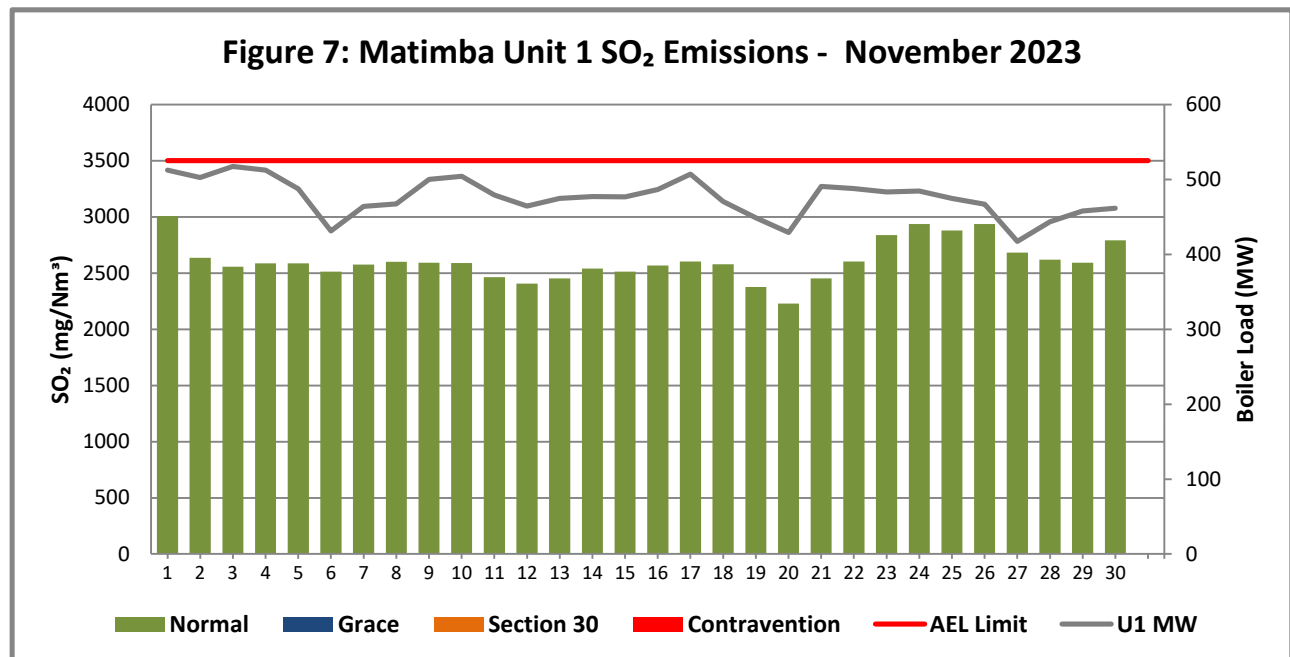


Figure 7: SO₂ daily average emissions against emission limit for unit 1 for the month of November 2023

Interpretation:

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

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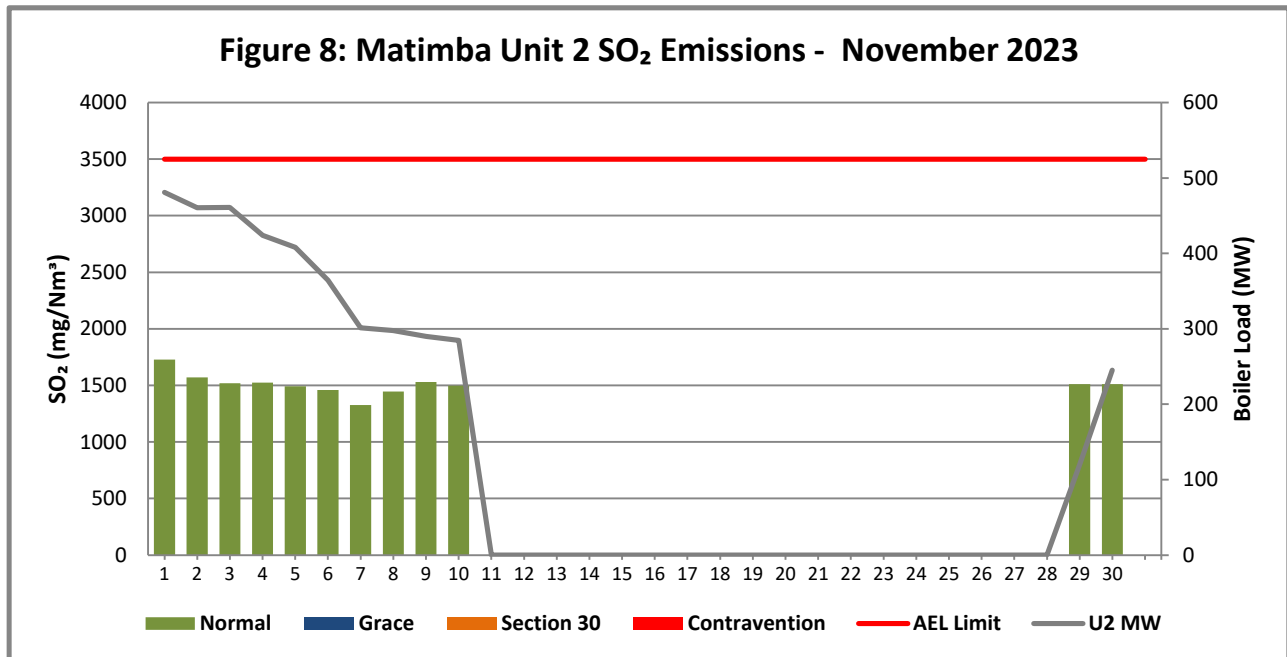
Unit 2 SO₂ Emissions

Figure 8: SO₂ daily average emissions against emission limit for unit 2 for the month of November 2023

Interpretation:

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

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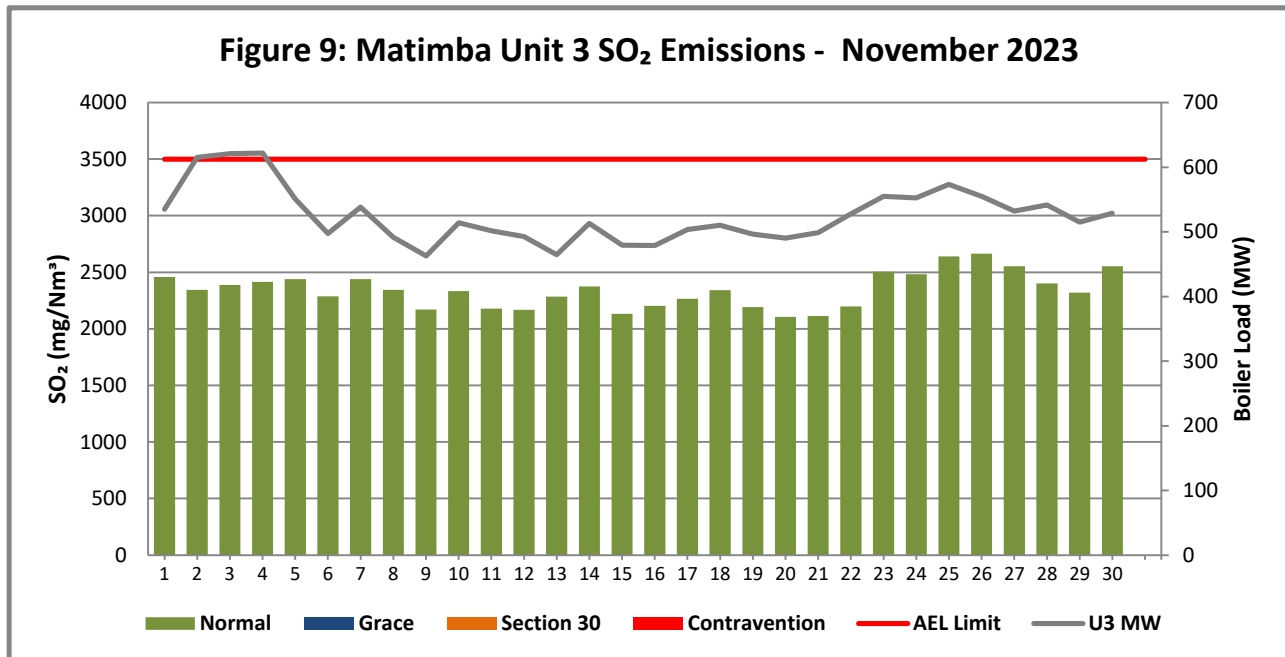
Unit 3 SO₂ Emissions

Figure 9: SO₂ daily average emissions against emission limit for unit 3 for the month of November 2023

Interpretation:

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

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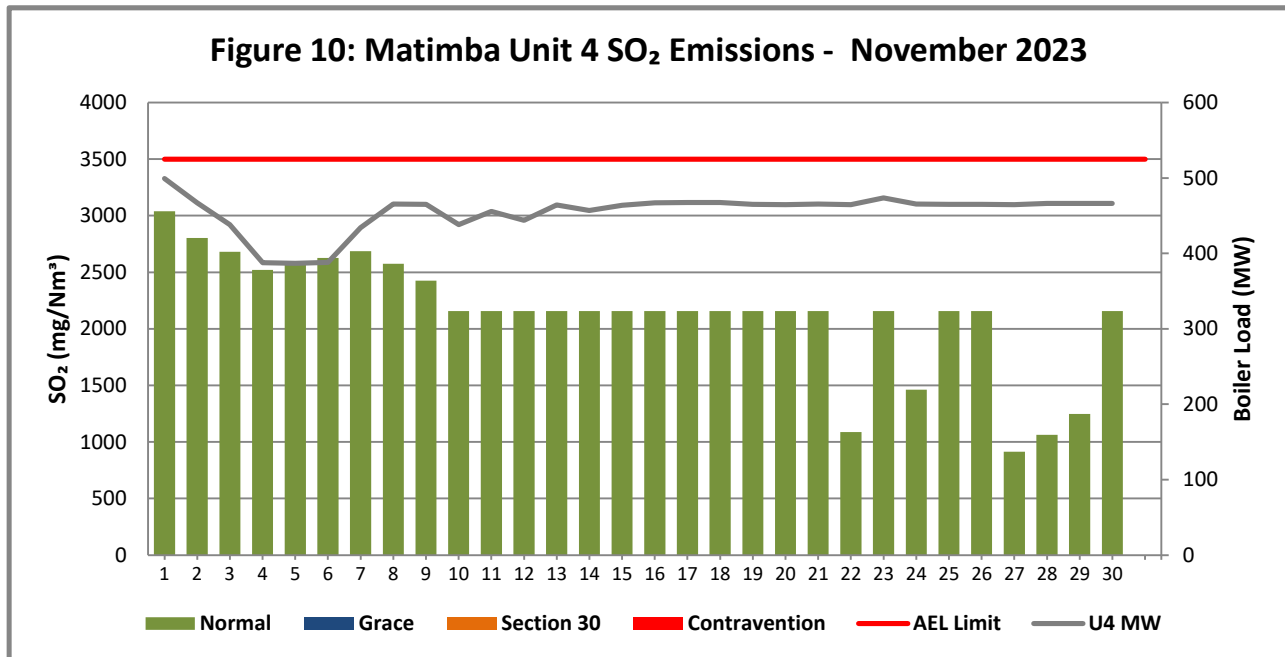
Unit 4 SO₂ Emissions

Figure 10: SO₂ daily average emissions against emission limit for unit 4 for the month of November 2023

Interpretation:

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

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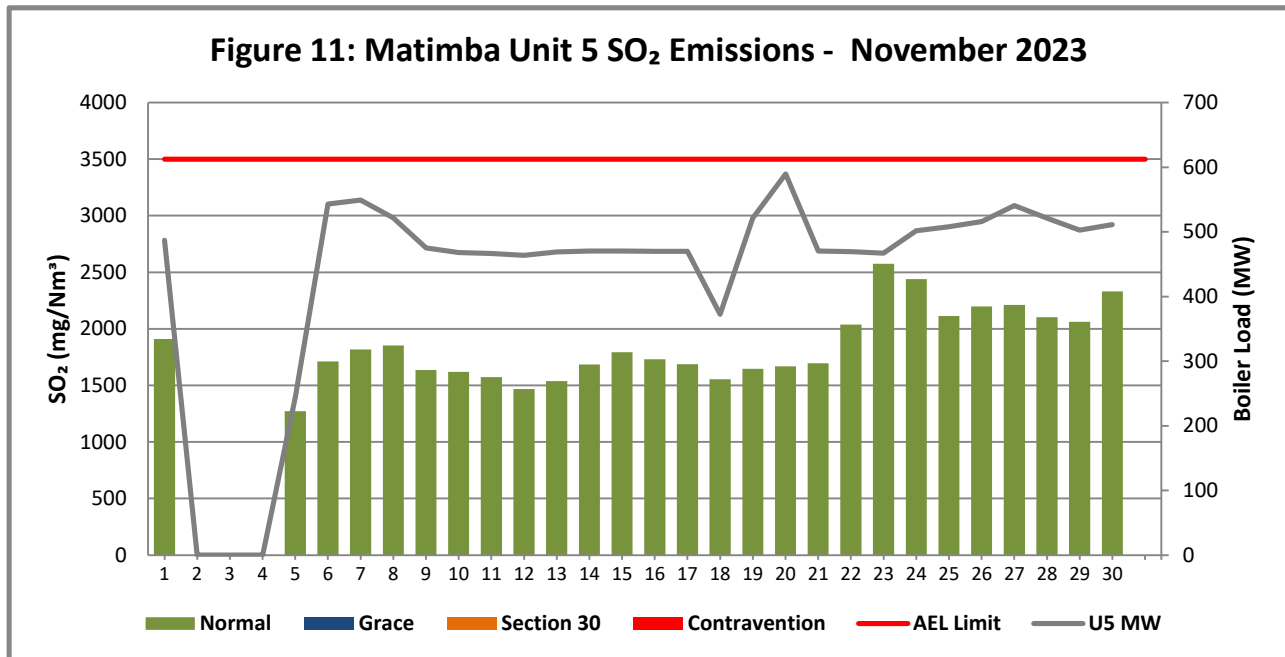
Unit 5 SO₂ Emissions

Figure 11: SO₂ daily average emissions against emission limit for unit 5 for the month of November 2023

Interpretation:

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

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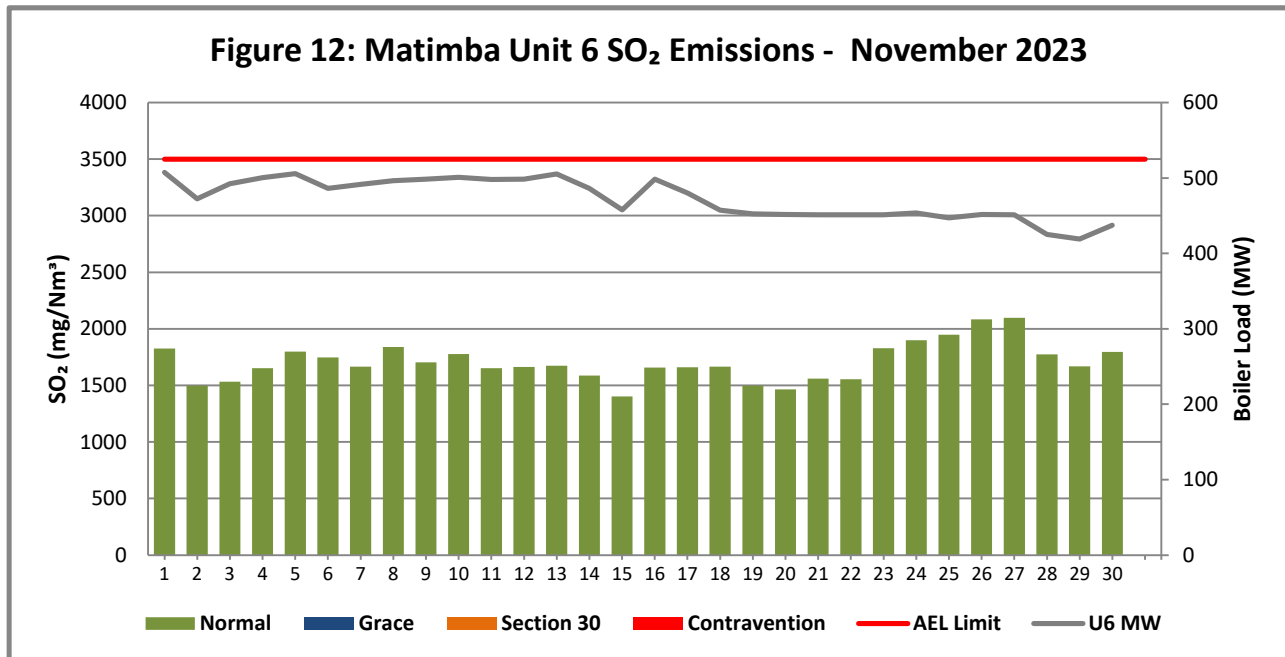
Unit 6 SO₂ Emissions

Figure 12: SO₂ daily average emissions against emission limit for unit 6 for the month of November 2023

Interpretation:

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

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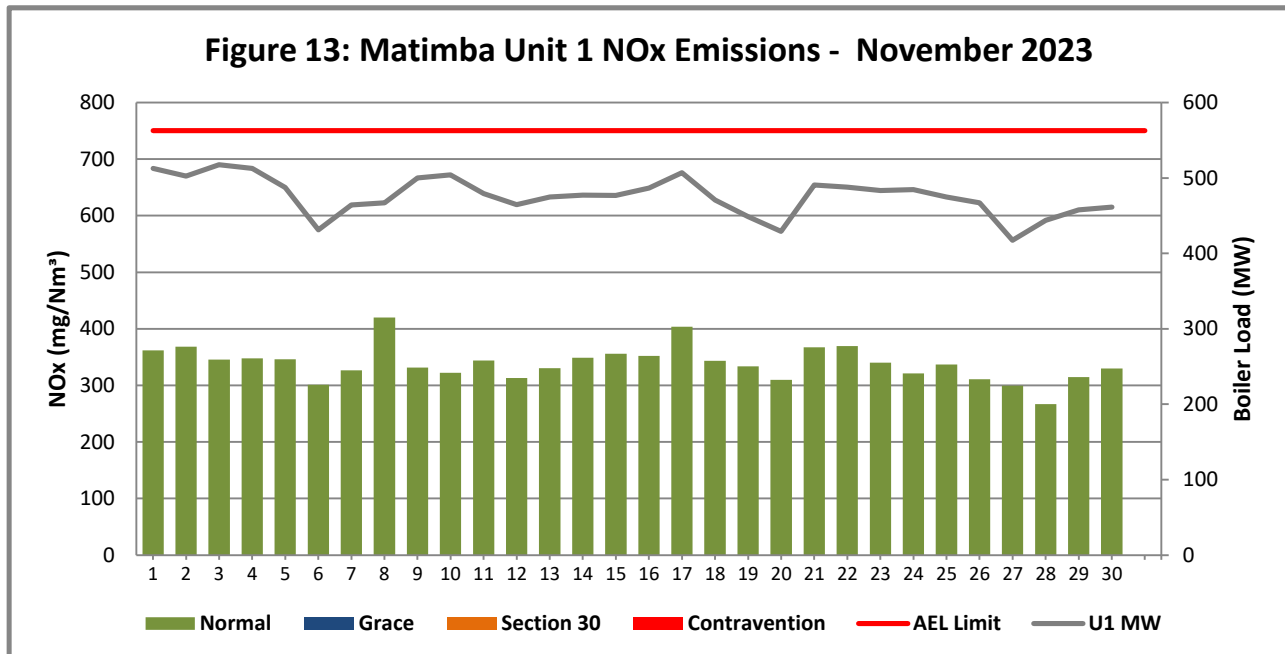
Unit 1 NO_x Emissions

Figure 13: NO_x daily average emissions against emission limit for unit 1 for the month of November 2023

Interpretation:

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

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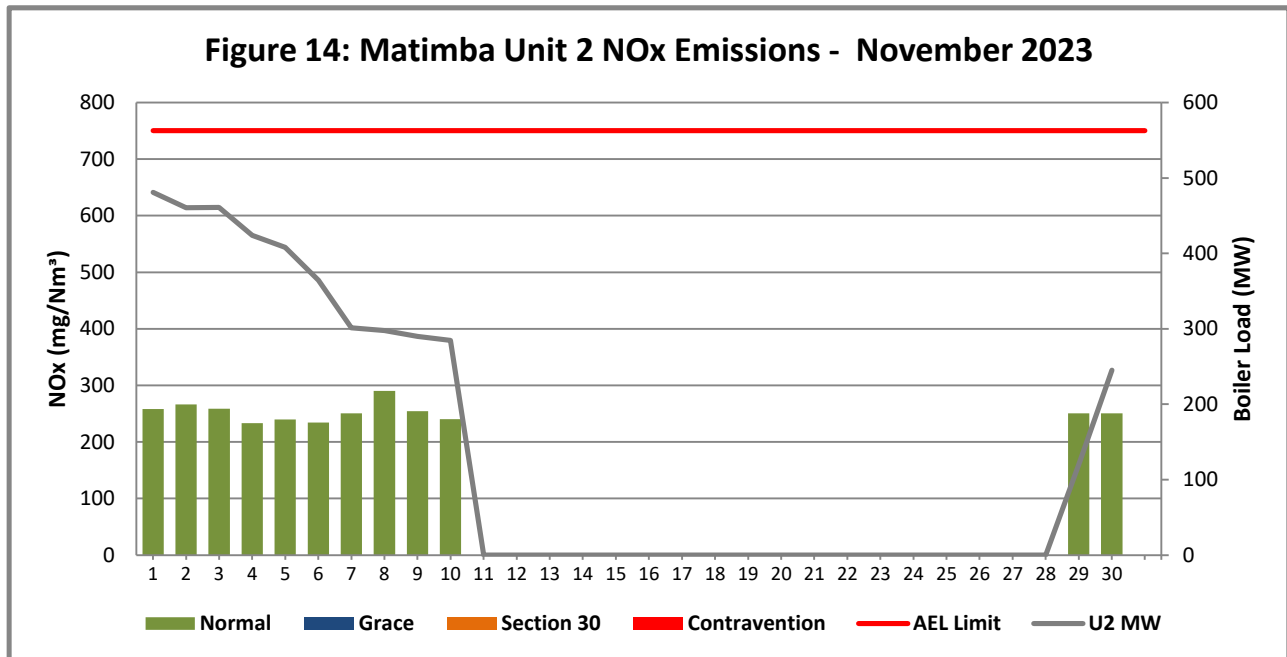
Unit 2 NO_x Emissions

Figure 14: NO_x daily average emissions against emission limit for unit 2 for the month of November 2023

Interpretation:

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

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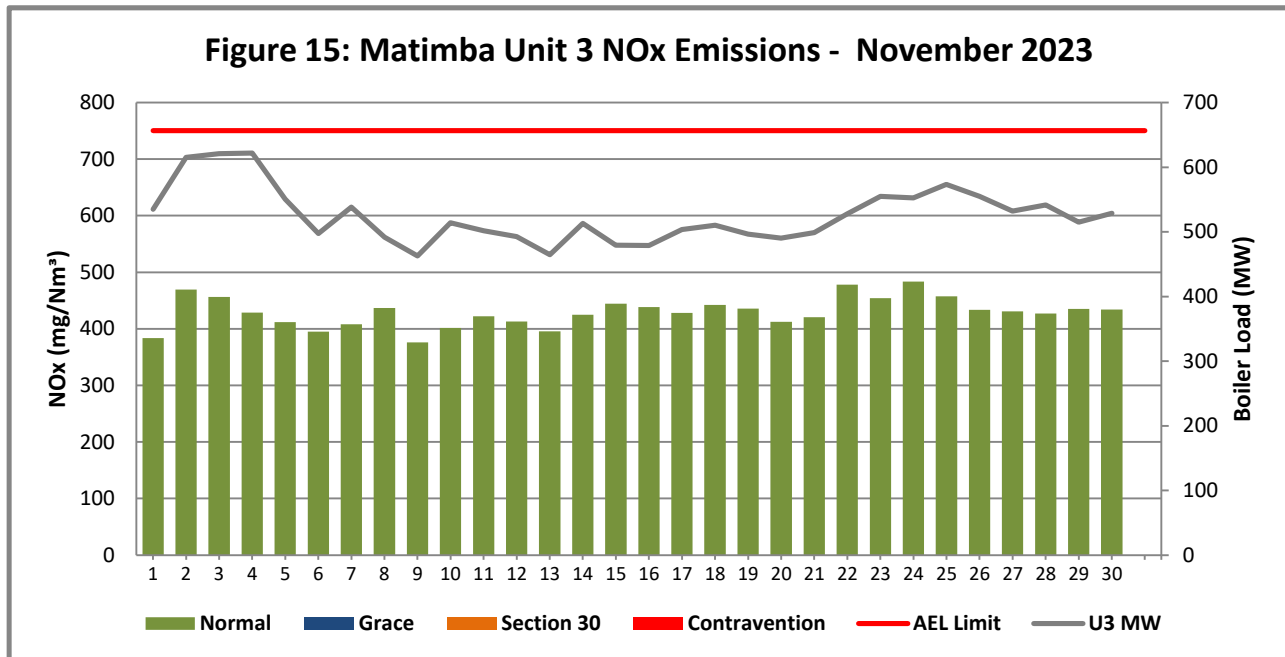
Unit 3 NO_x Emissions

Figure 15: NO_x daily average emissions against emission limit for unit 3 for the month of November 2023

Interpretation:

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

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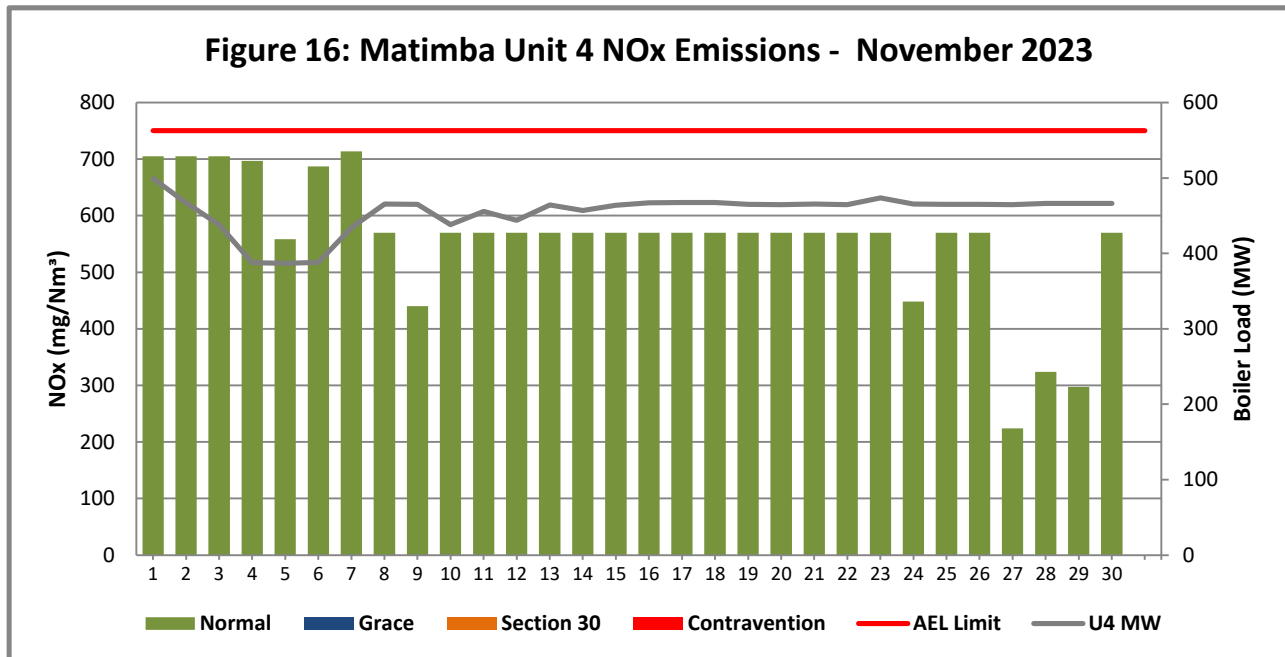
Unit 4 NO_x Emissions

Figure 16: NO_x daily average emissions against emission limit for unit 4 for the month of November 2023

Interpretation:

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

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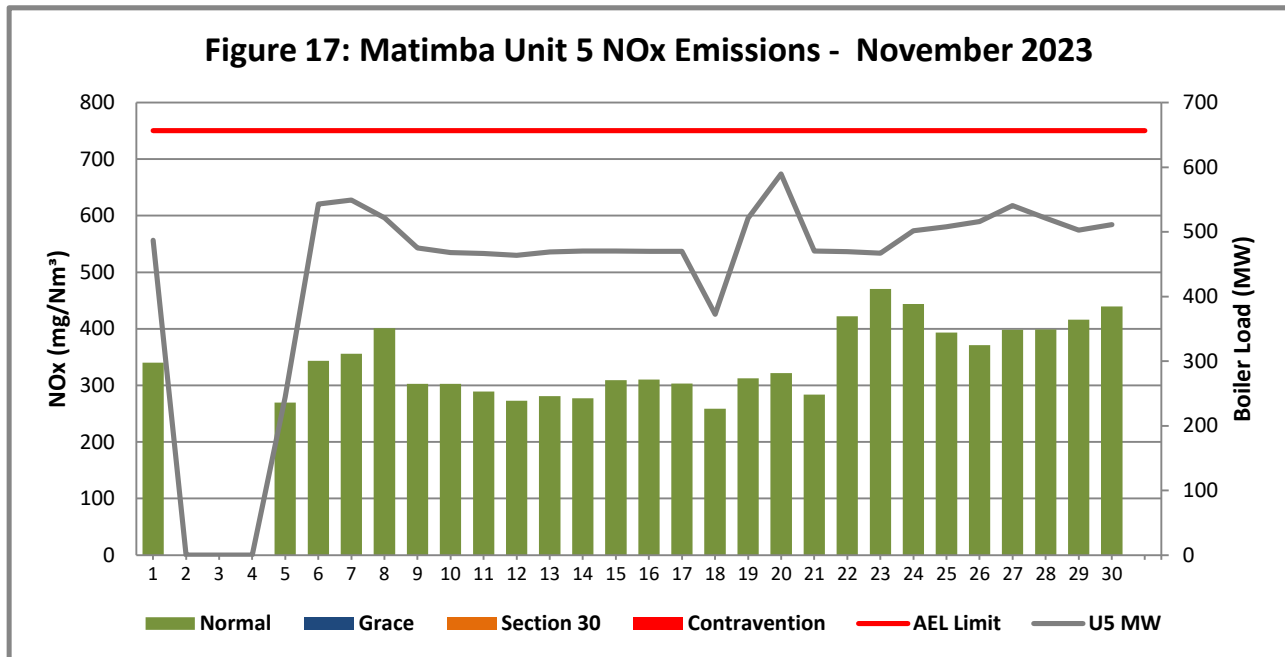
Unit 5 NO_x Emissions

Figure 17: NO_x daily average emissions against emission limit for unit 5 for the month of November 2023

Interpretation:

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

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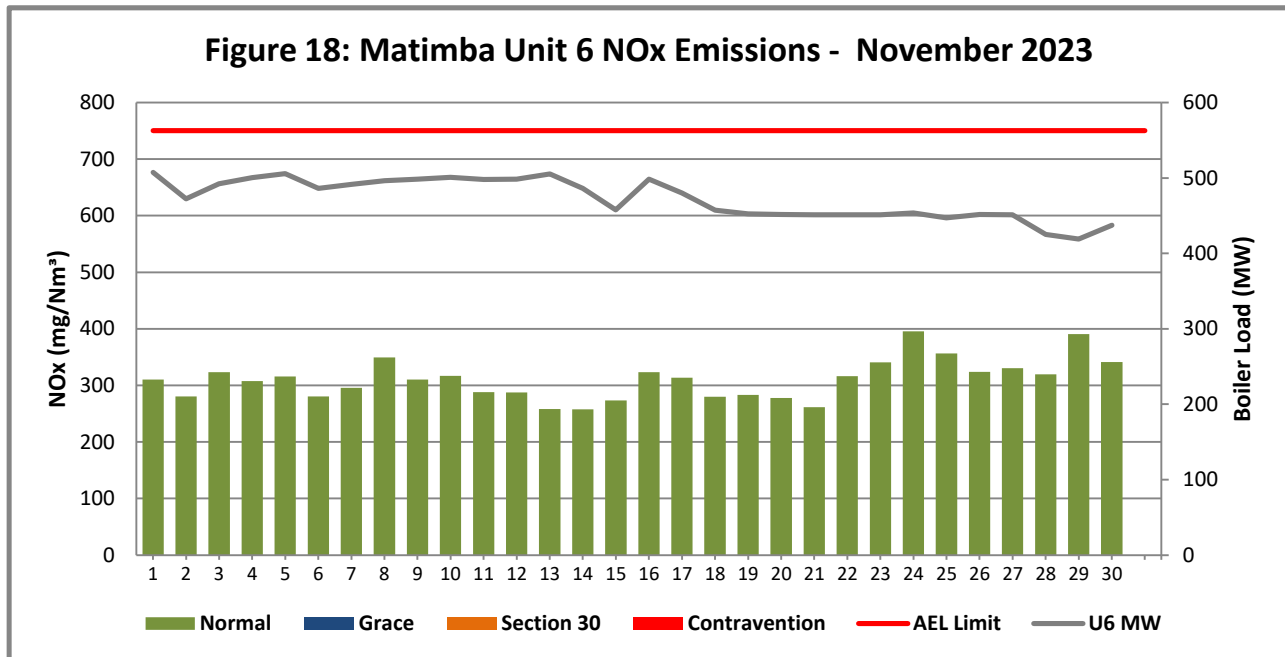
Unit 6 NO_x Emissions

Figure 18 NO_x daily average emissions against emission limit for unit 6 for the month of November 2023

Interpretation:

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


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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:	Wednesday, 27 December 2023	
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 blue cells below</p> <p align="center">Choose from a dropdown menu in the green cells</p> <p align="center">The total VOC emissions for the month are in the red cells</p> <p align="center">IMPORTANT: Do not change any other cells without consulting the AQ CoE</p>		
MONTH:	November	
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:	1548,087	
Molecular weight of the fuel oil:	166,00	Lb/lb-mole
METEROLOGICAL DATA FOR THE MONTH	Data	Unit
Daily average ambient temperature	26,22	°C
Daily maximum ambient temperature	32,63	°C
Daily minimum ambient temperature	20,19	°C
Daily ambient temperature range	12,44	°C
Daily total insolation factor	6,14	kWh/m²/day
Tank paint colour	Grey/medium	NA
Tank paint solar absorbance	0,68	NA
FINAL OUTPUT:	Result	Unit
Breathing losses:	0,59 kg/month	
Working losses:	0,04 kg/month	
TOTAL LOSSES (Total TVOC Emissions for the month):	0,63 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, Tritech 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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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 November 2023

Date	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
2023/11/01	11351,4	10220,2	11661,7	10863,6	9395,91	11018,9
2023/11/02	11061,5	9775,75	13445,6	10131,2	0	10262,3
2023/11/03	11400,8	9798,01	13549,9	9491,11	0	10669,3
2023/11/04	11281	8981,58	13587,6	8326,06	0	10863,7
2023/11/05	10729,3	8642,13	12044,2	8298,03	102,737	10966,8
2023/11/06	9428,37	7650,92	10792,9	8313,69	11700	10529,2
2023/11/07	10188,6	6202,45	11748,2	9330,59	11937,6	10652,4
2023/11/08	10259,8	6131,27	10680,5	10069,9	11290,3	10784,6
2023/11/09	10975,4	5911,17	10013,7	10062,5	10255,1	10752,1
2023/11/10	11093,4	2213,46	11190,9	9502,9	10099	10833
2023/11/11	10519,8	0	10914,1	9819,53	10077,9	10783,3
2023/11/12	10187,8	0	10726,4	9572,66	9944,25	10793,1
2023/11/13	10433	0	10097,9	9993,96	10011,8	10934,8
2023/11/14	10492,8	0	11161,8	9871,47	10056,5	10564,9
2023/11/15	10480,7	0	10414,1	10003,1	10049,9	9870,37
2023/11/16	10669,6	0	10400,4	10082,6	10027,9	10821,1
2023/11/17	11121,6	0	10927,4	10107,2	10027,6	10399,4
2023/11/18	10314,1	0	11093	10094,3	53,9491	9887,05
2023/11/19	9848,42	0	10797,9	10045	6932,06	9777,56
2023/11/20	9344,52	0	10637,5	10025	12674,9	9729,49
2023/11/21	10784,6	0	10813,7	10035,4	10017,6	9741,69
2023/11/22	10707,9	0	11438,3	10014,3	10008,5	9726,56
2023/11/23	10609,7	0	12076	10251,6	9945,44	9702,94
2023/11/24	10637	0	11975,4	10036,6	10704,9	9751,02
2023/11/25	10418,8	0	12474,4	10037,7	10839,2	9579,41
2023/11/26	10245,5	0	12093,9	10035,1	10987,7	9706,6
2023/11/27	9087,62	0	11540,8	10023,3	11588	9712,6
2023/11/28	9712,25	0	11759,9	10048,4	11139,6	6680,31
2023/11/29	9999,96	0	11176,6	10042	10727,1	8990,21
2023/11/30	10118,1	0	11454,5	10043,8	10862,8	9434,56

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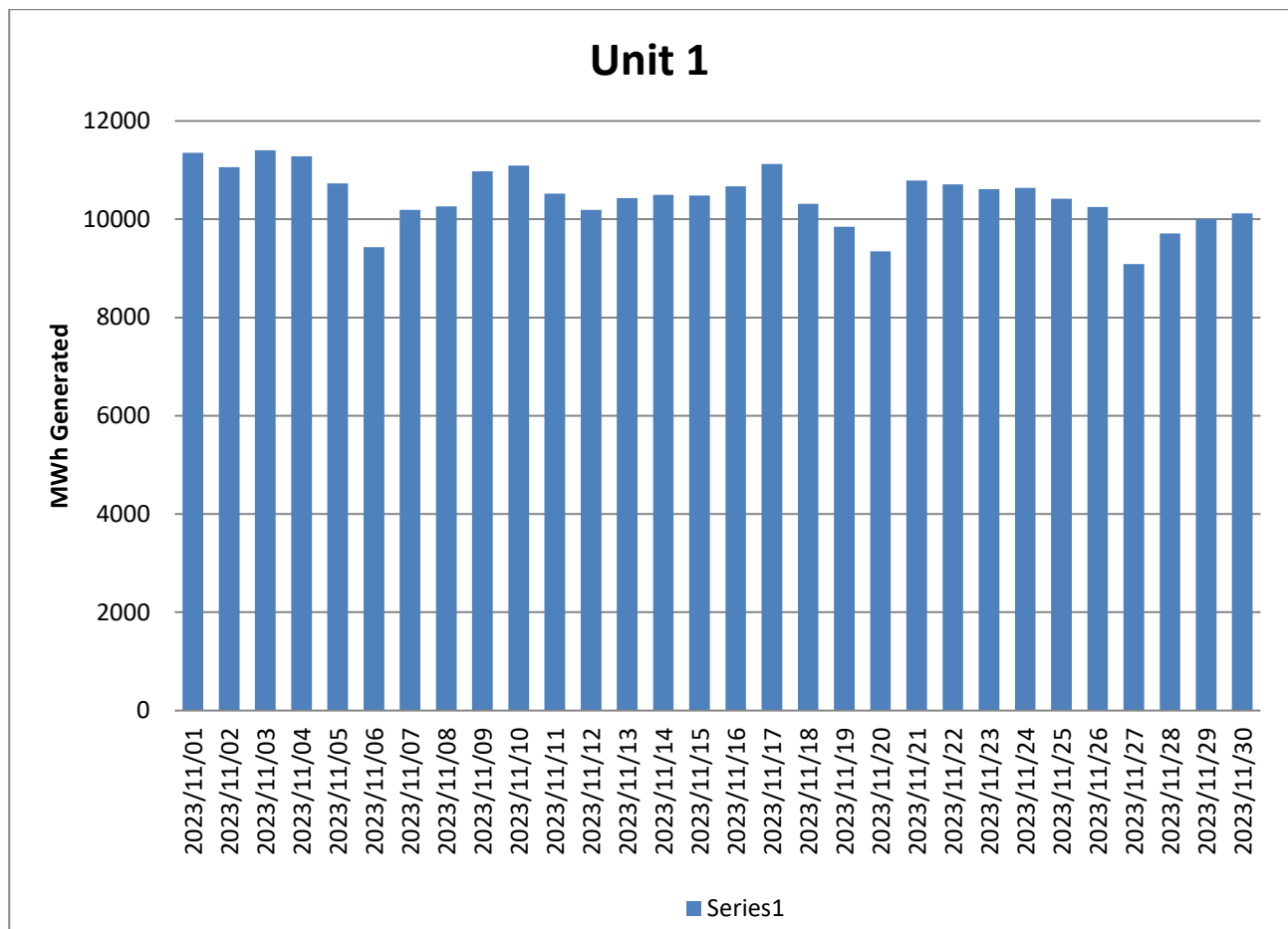


Figure 19: Unit 1 daily generated power in MWh for the month of November 2023

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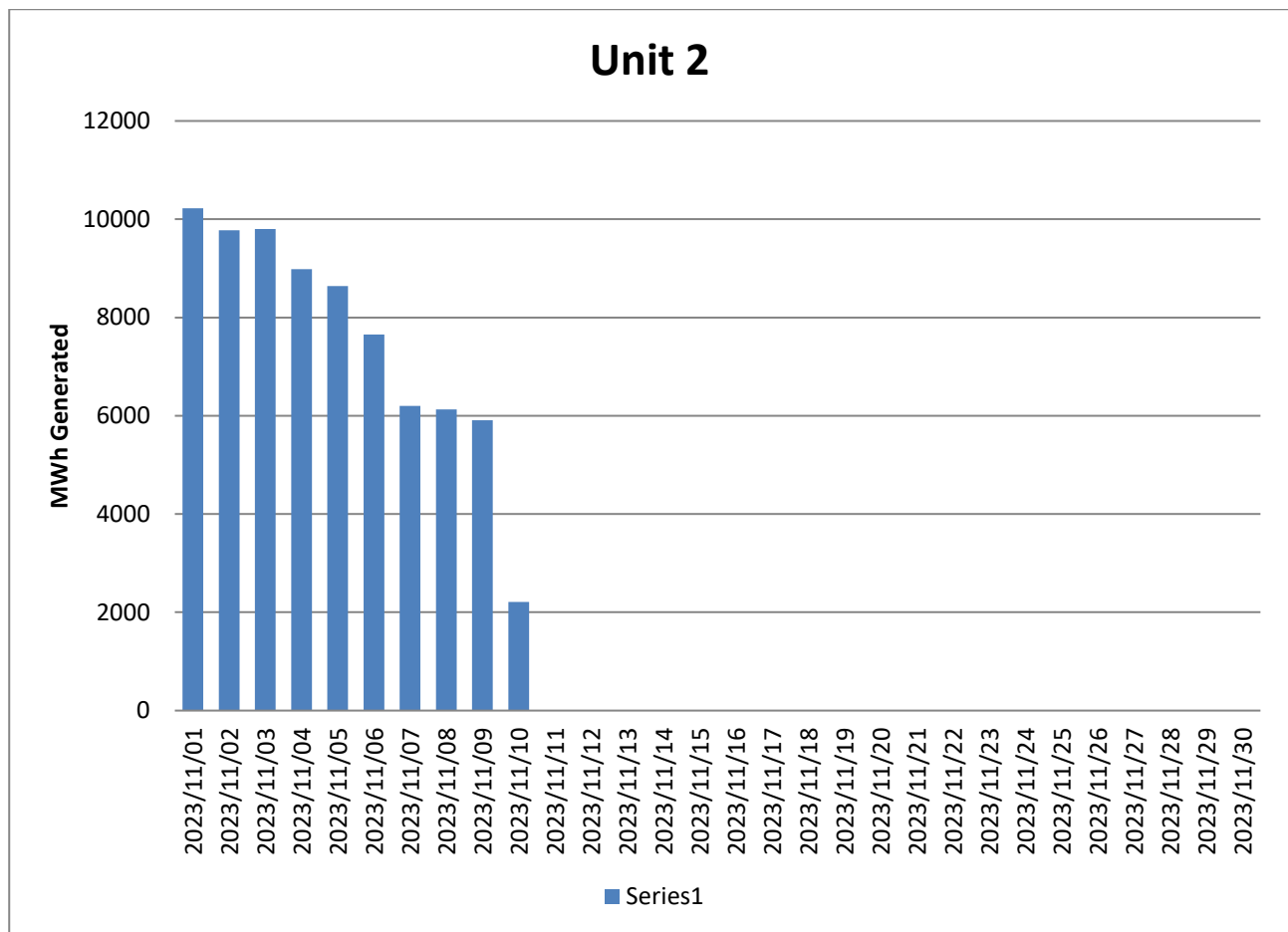


Figure 20: Unit 2 daily generated power in MWh for the month of November 2023

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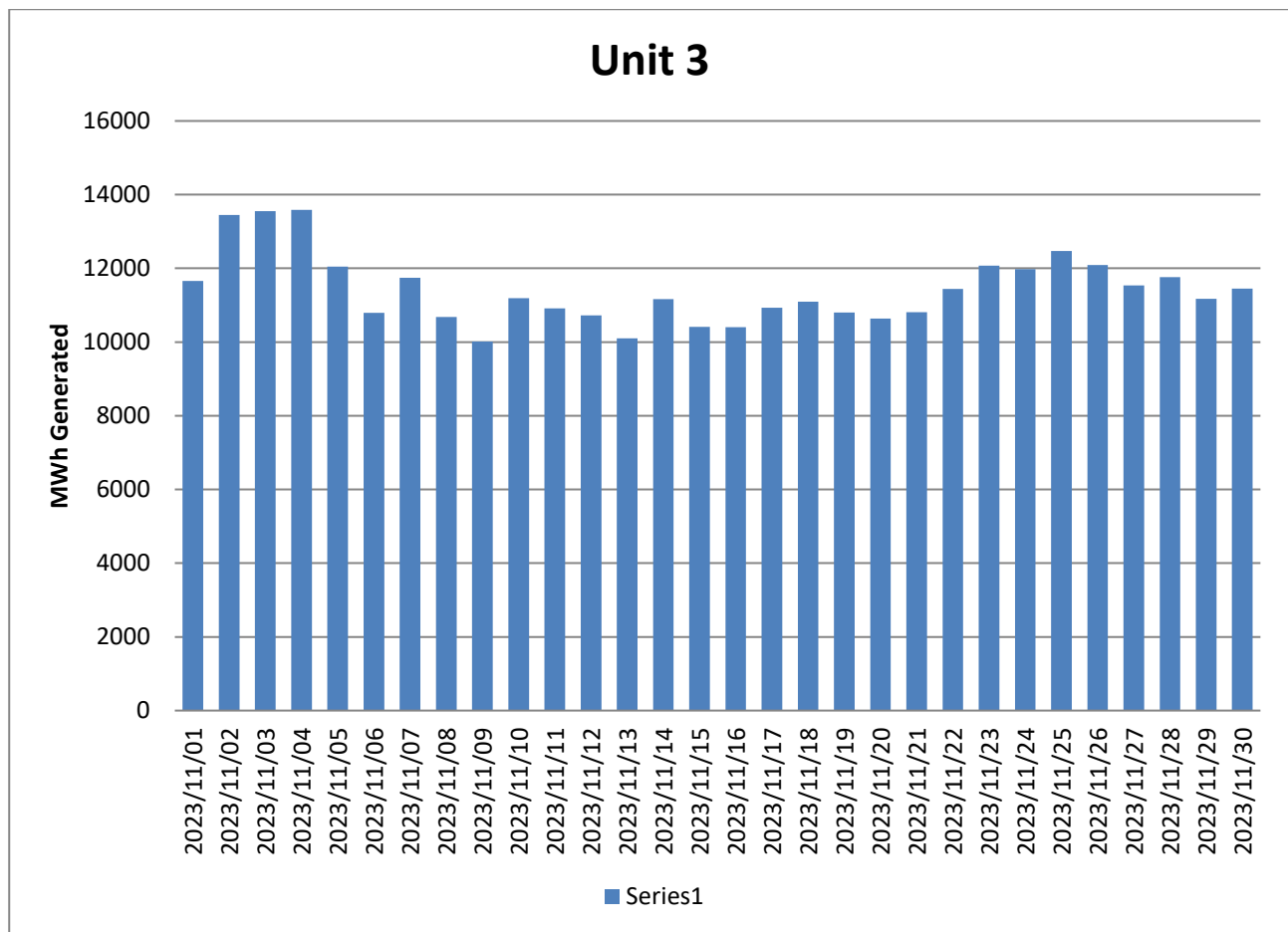


Figure 21: Unit 3 daily generated power in MWh for the month of November 2023

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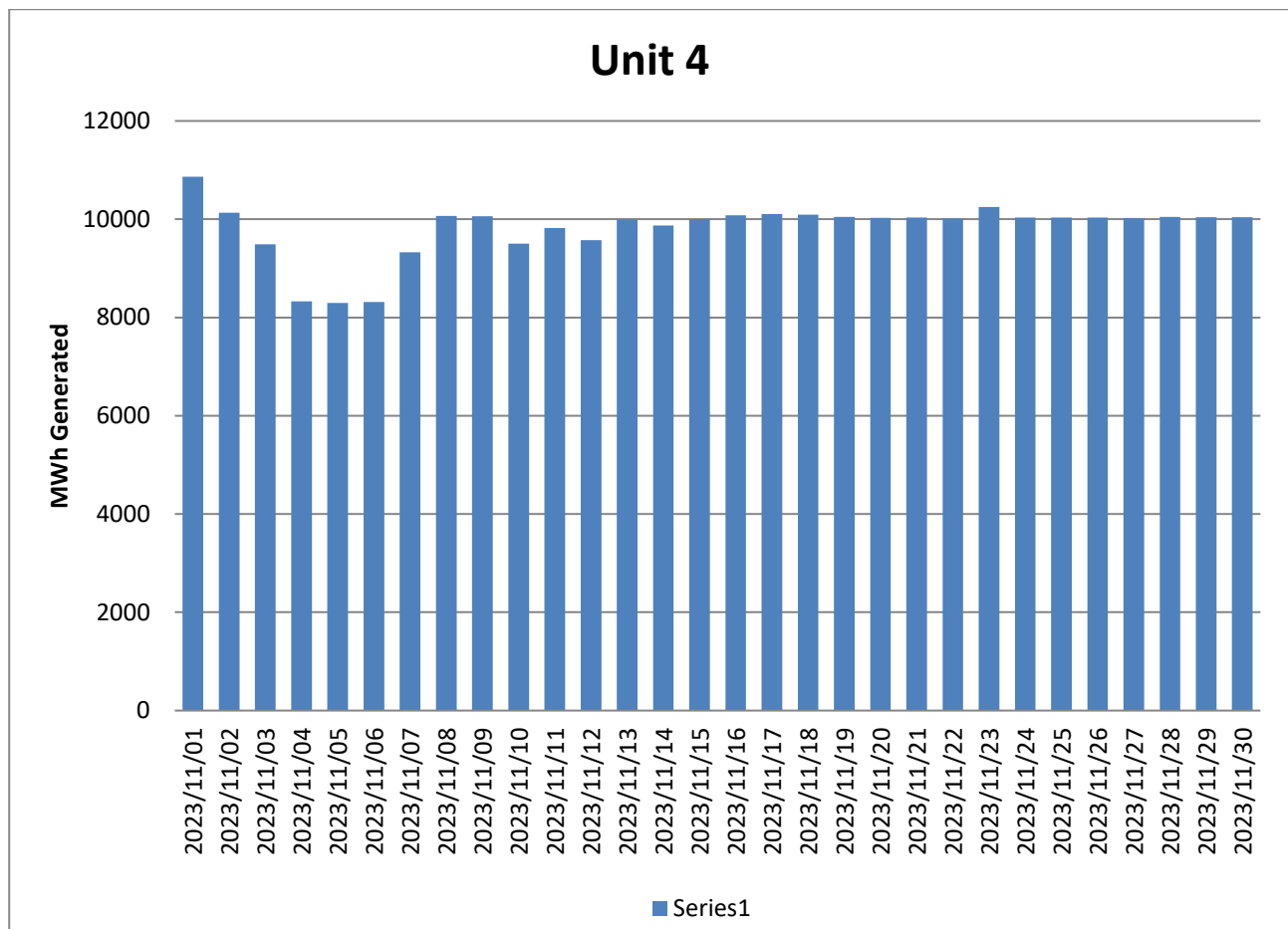


Figure 22: Unit 4 daily generated power in MWh for the month of November 2023

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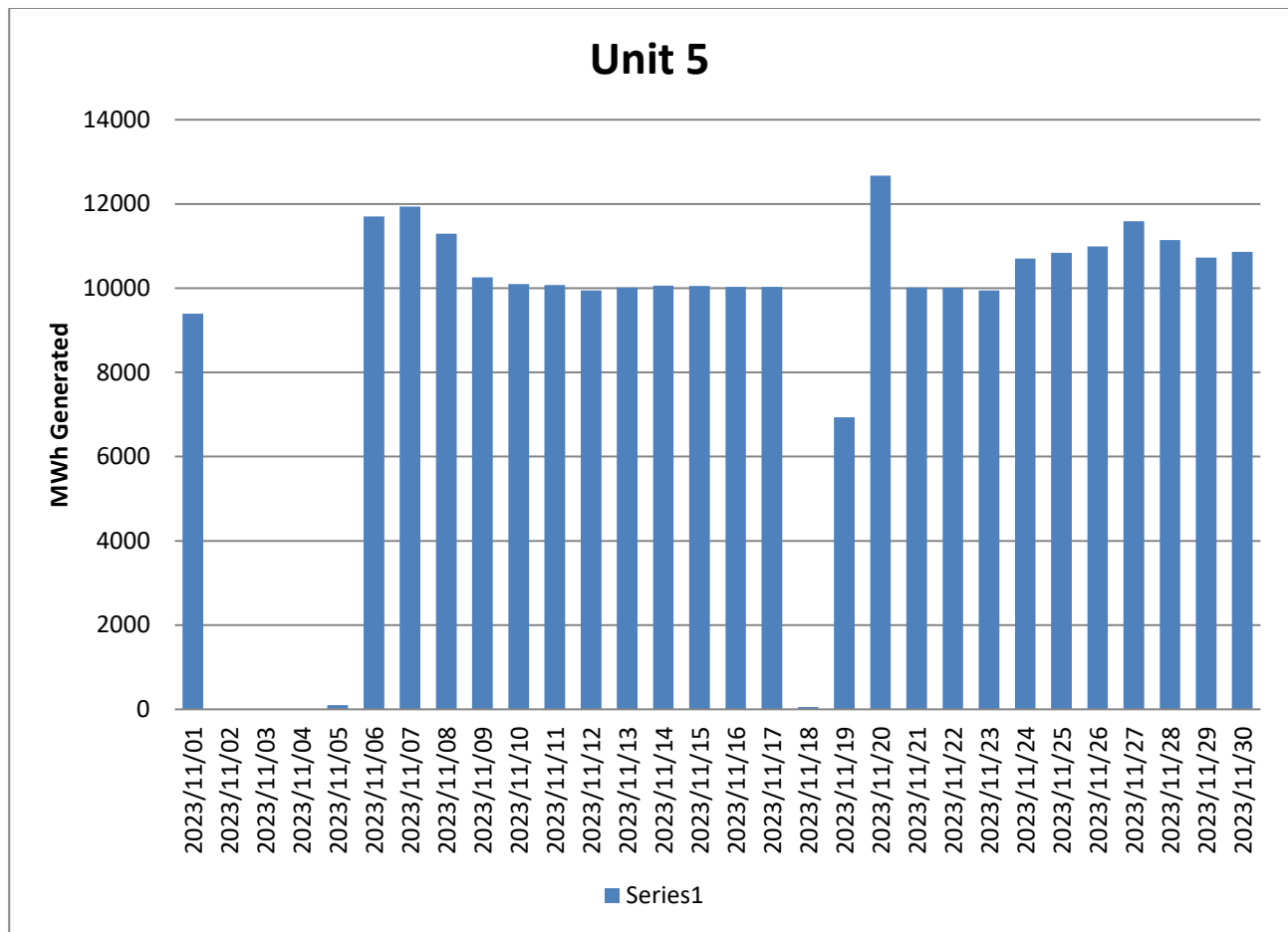


Figure 23: Unit 5 daily generated power in MWh for the month of November 2023

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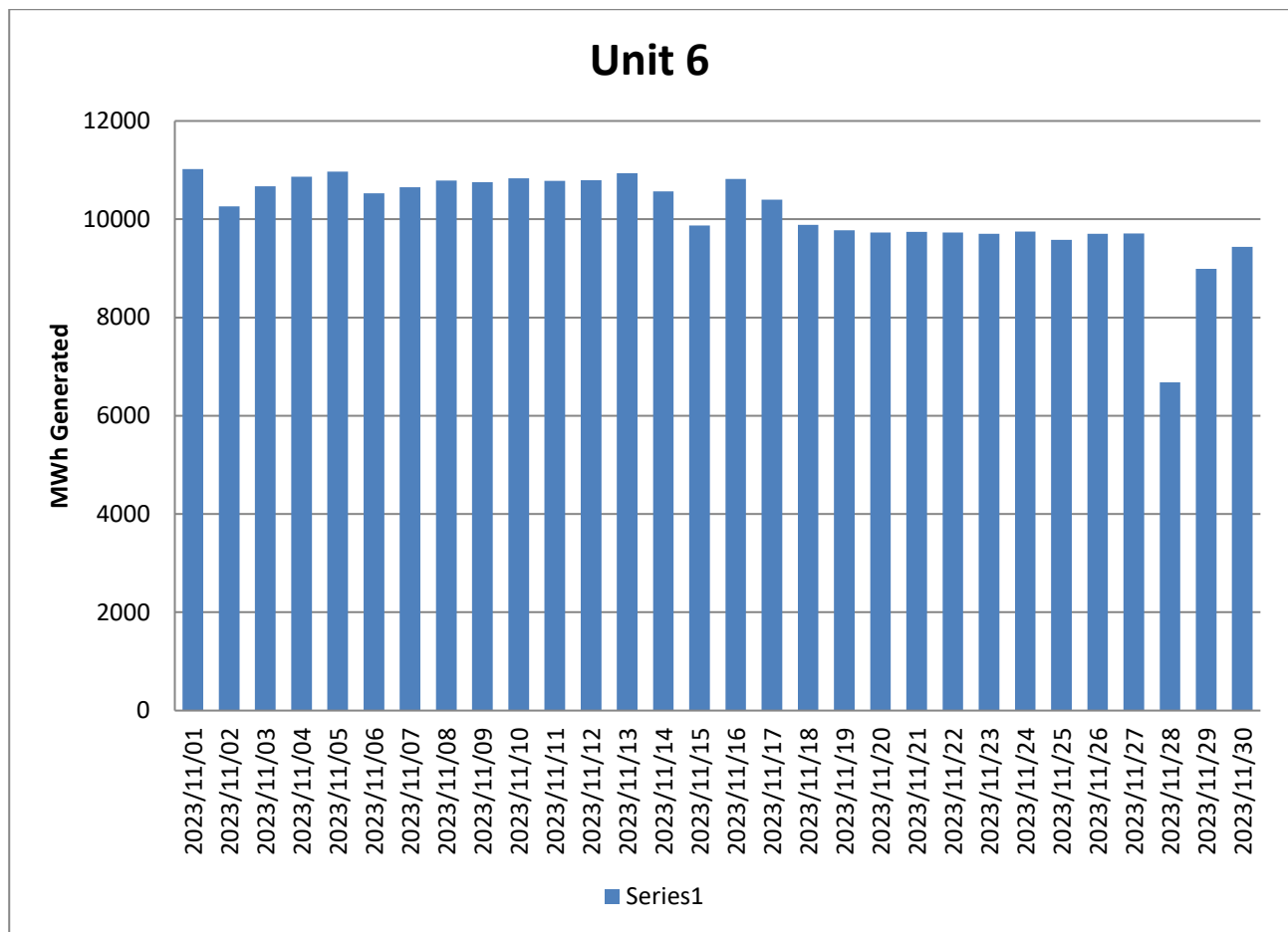


Figure 24: Unit 6 daily generated power in MWh for the month of November 2023

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2.5 Pollutant Tonnages

The emitted pollutant tonnages for November 2023 are provided in table 6.

Table 6: Pollutant tonnages for the month of November 2023

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	80.1	5 160.0	671.2
Unit 2	22.1	1 107.4	183.5
Unit 3	110.3	5 425.1	995.3
Unit 4	161.8	3 478.3	919.7
Unit 5	86.9	2 794.4	522.3
Unit 6	51.5	3 035.5	552.9
SUM	512.8	21 000.7	3 845.0

2.6 Operating days in compliance to PM AEL Limit

Table 7: Operating days in compliance with PM AEL limit of November 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average PM (mg/Nm ³)
Unit 1	26	4	0	0	4	40.4
Unit 2	10	0	0	0	0	30.1
Unit 3	18	8	0	4	12	47.9
Unit 4	1	2	0	23	64	99.8
Unit 5	3	5	0	17	0	66.2
Unit 6	29	1	0	0	1	29.8
SUM	87	20	0	44	81	

2.7 Operating days in compliance to SO_x AEL Limit

Table 8: Operating days in compliance with SO_x AEL limit of November 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average SO ₂ (mg/Nm ³)
Unit 1	30	0	0	0	0	2 612.1
Unit 2	12	0	0	0	0	1 511.7
Unit 3	30	0	0	0	0	2 354.3
Unit 4	30	0	0	0	0	2 157.2
Unit 5	27	0	0	0	0	1 869.6
Unit 6	30	0	0	0	0	1 751.2
SUM	159	0	0	0	0	

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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 November 2023

Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	30	0	0	0	0	339.4
Unit 2	12	0	0	0	0	250.4
Unit 3	30	0	0	0	0	431.6
Unit 4	29	0	0	0	0	569.6
Unit 5	27	0	0	0	0	349.3
Unit 6	30	0	0	0	0	319.9
SUM	158	0	0	0	0	

2.9 Reference values

Table 10: Reference values for data provided, November 2023

Compound / Parameter	Units of Measure	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Oxygen	%	7,32	7,42	6,27	8,00	7,69	8,29
Moisture	%	3,87	3,38	3,99	2,94	4,06	2,00
Velocity	m/s	24,3	26,9	26,5	20,5	22,0	25,8
Temperature	°C	140,6	114,0	131,5	128,3	128,5	166,4
Pressure	mBar	928,8	936,2	916,5	929,8	944,6	910,0

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 November 2023 are provided in table 6.

Table 11: Average percentage (%) availability of monitors for the month of November 2023.

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	100,0	99,9	99,9
Unit 2	100,0	83,0	65,3
Unit 3	100,0	99,9	99,9
Unit 4	100,0	99,9	99,9
Unit 5	100,0	100,0	100,0
Unit 6	100,0	100,0	99,9

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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

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

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

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2.10.3 Sampling dates and times**Table 12:** Dates of last conducted CEMS verification tests for PM, SO₂ and NO_x

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
1	2020/09/30 06h04	2020/09/09 13h00	2020/09/09 13h00	2020/09/09 13h00
2	2021/01/26 04h52	2021/01/27 13h00	2021/01/27 13h00	2021/01/27 13h00
3	2021/08/10 12h05	2020/09/24 07h00	2020/09/24 07h00	2020/09/24 07h00
4	2021/07/13 14h31	2020/09/16 02h00	2020/09/16 02h00	2020/09/16 02h00
5	2020/10/06 05h39	2020/10/08 02h30	2020/10/08 02h30	2020/10/08 02h30
6	2020/09/09 06h41	2020/09/09 13h00	2020/09/09 13h00	2020/09/09 13h00

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.

Dates of last conducted CEMS Spot verification tests for PM, SO₂ and NO_x

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	2020/09/30 06h04	2023/08/01 19:33	2023/08/01 19:33	2023/08/01 19:33
2	2021/01/26 04h52	2023/07/29 21:17	2023/07/29 21:17	2023/07/29 21:17
3	2021/08/10 12h05	2023/08/06 03:00	2023/08/06 03:00	2023/08/06 03:00
4	2021/07/13 14h31	2023/08/04 19:39	2023/08/04 19:39	2023/08/04 19:39
5	2020/10/06 05h39	2023/08/05 07:30	2023/08/05 07:30	2023/08/05 07:30
6	2020/09/09 06h41	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 all units failed.

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2.11 Units Start-up information

Table 13: Start-up information

Unit	5	
Fires in	2023/11/05	14h57
Synchronization with Grid	2023/11/05	19h56
Emissions below limit	2023/11/06	10h01
Fires in, to synchronization	4,59	HOURS
Synchronization to < Emission limit	14,5	HOURS

Unit	5	
Fires in	2023/11/05	21h20
Synchronization with Grid	2023/11/05	22h53
Emissions below limit	2023/11/06	10h01
Fires in, to synchronization	1,33	HOURS
Synchronization to < Emission limit	11,8	HOURS

Unit	5	
Fires in	2023/11/18	20h00
Synchronization with Grid	2023/11/19	08h36
Emissions below limit	2023/11/20	04h33
Fires in, to synchronization	12,36	HOURS
Synchronization to < Emission limit	19,57	HOURS

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Unit	6	
Fires in	2023/11/28	10h57
Synchronization with Grid	2023/11/28	16h56
Emissions below limit	2023/11/28	18h13
Fires in, to synchronization	5,59	HOURS
Synchronization to < Emission limit	1,17	HOURS

2.12 Emergency generation

Table 14: Emergency generation

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Emergency Generation hours declared by national Control	720	720	720	720	720	720
Emergency Hours declared including hours after stand down	720	227	720	720	591	714
Days over the Limit during Emergency Generation	4	0	12	29	21	1

2.13 Complaints register.

Table 15: 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
None					

2.14 Air quality improvements and social responsibility conducted.

2.14.1 Air quality improvements

None

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2.14.2 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

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

Unit 2

- 10 fields out of service, will be repaired during next opportunity.
- No abnormalities on the SO3 plant. Preventative maintenance done during the month.
- Unit shut down on 10 November 2023 for MO outage.

Unit 3

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

Unit 4

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

Unit 5

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

Unit 6

- 8 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

Wikus van Rensburg

GENERAL MANAGER: MATIMBA POWER STATION

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