



Generation

Gert Sibande District Municipality
Corner of Joubert & Oosthuise Streets
Ermelo
2350

Attention:

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AND

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GROOTVLEI POWER STATION

Atmospheric Emission License GPS/0015/2024/F04

BOILER ENGINEERING MANAGER

2026/04/13

DATE

ENGINEERING MANAGER

14/04/2026

DATE

ENVIRONMENTAL MANAGER

2026/04/16

DATE

GROOTVLEI POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License: GPS/0015/2015/F02


1 RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Max Permitted Consumption Rate	Consumption Rate Feb-2026
	Coal	Tons	650 000	64 777
	Fuel Oil	Tons	20 000	173.680
Production Rates	Product / By-Product Name	Units	Max Production Capacity Permitted	Indicative Production Rate Feb-2026
	Energy	GWh	806.400	102.113
	Ash	Tons	300 000	14 808.068
	RE Ash	kg/MWh	not specified	0.005

Note: Max energy rate = AEL capacity [1,200 MW] × 24 hrs × days in month ÷ 1,000 (to convert to GWh).

2 ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
CV Content	MJ/kg	18-24 (MJ/kg)	20.920
Sulphur Content	%	< 1.46 (%)	0.590
Ash Content	%	24.7 to < 38.1 (%)	22.860

3 EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	Daily Limit		
	PM	SO ₂	NO _x
North	100	3500	1100
South	100	3500	1100

4 ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	FFP Efficiency
North	Fabric Filter Plant (FFP)	99.996%
South	Fabric Filter Plant (FFP)	Off-line

Note: The FFP does not have a bypass mode; therefore, it operates at 100% utilization.

5 DATA RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO	O ₂
North	100.0	0.0	0.0	0.0
South	Off	Off	Off	Off

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

6 EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for February 2026

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	Off	Off	Off
Unit 2	0.5	657	250
Unit 3	Off	Off	Off
Unit 4	Off	Off	Off
Unit 5	Off	Off	Off
Unit 6	Off	Off	Off
SUM	0.49	657	250

Table 6.2: PM AEL Daily Compliance - February 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	28	0	0	0	0	0.9
South	Off	Off	Off	Off	Off	Off
SUM	28	0	0	0	0	

Table 6.3: SO₂ AEL Daily Compliance - February 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	28	0	0	0	0	1 223.8
South	Off	Off	Off	Off	Off	Off
SUM	28	0	0	0	0	

Table 6.4: NO_x AEL Daily Compliance - February 2026

Associated Unit/Stack	Normal	Grace	Section 30	NC	Total Exceedance	Mnth Avg (mg/Nm ³)
North	28	0	0	0	0	466.5
South	Off	Off	Off	Off	Off	Off
SUM	28	0	0	0	0	

Table 6.5: Legend Description




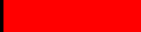
Condition	Colour	Description
Normal		Emissions below Emission Limit Value (ELV)
Grace		Emissions above the ELV during grace period
Section 30		Emissions above ELV during a NEMA S30 incident
Contravention		Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Grootvlei North Stack PM Emissions - February 2026

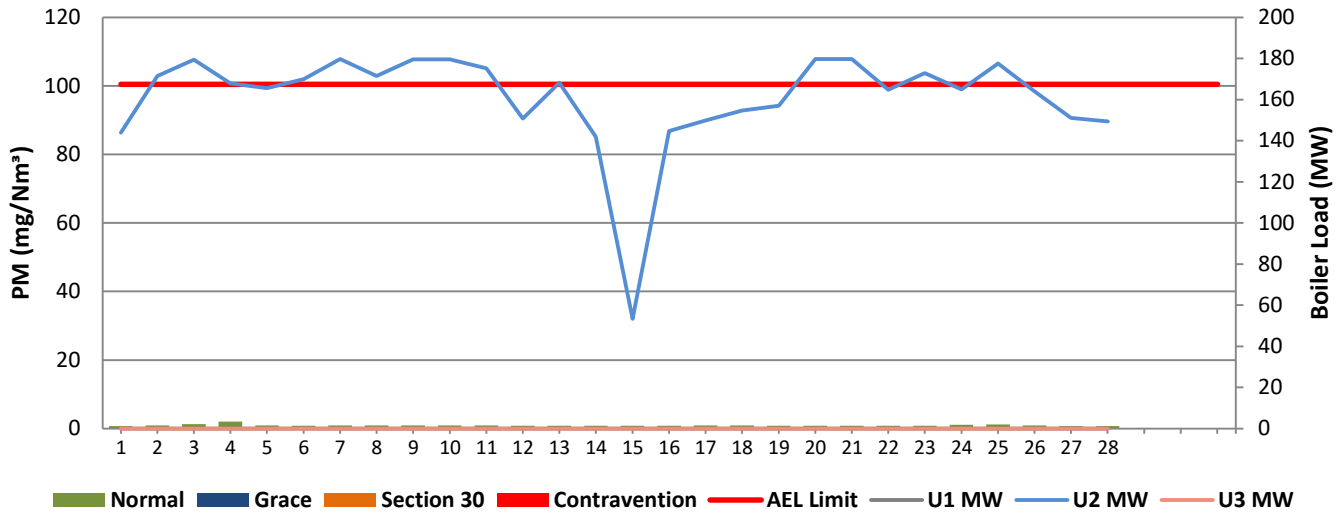


Figure 2: Grootvlei South Stack PM Emissions - February 2026

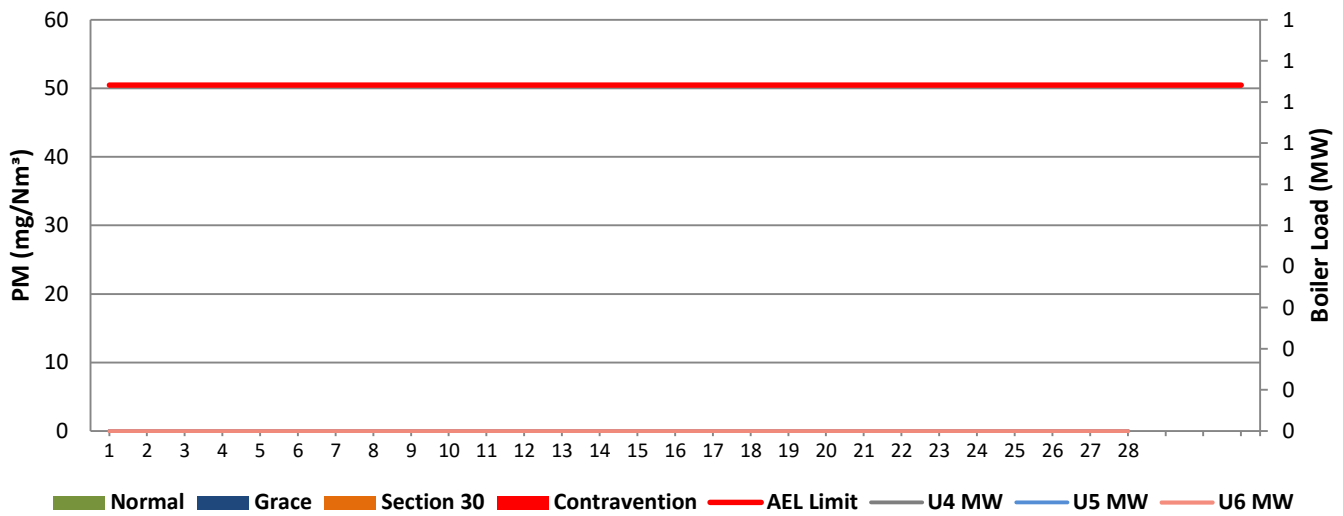


Figure 3: Grootvlei North Stack SO₂ Emissions - February 2026

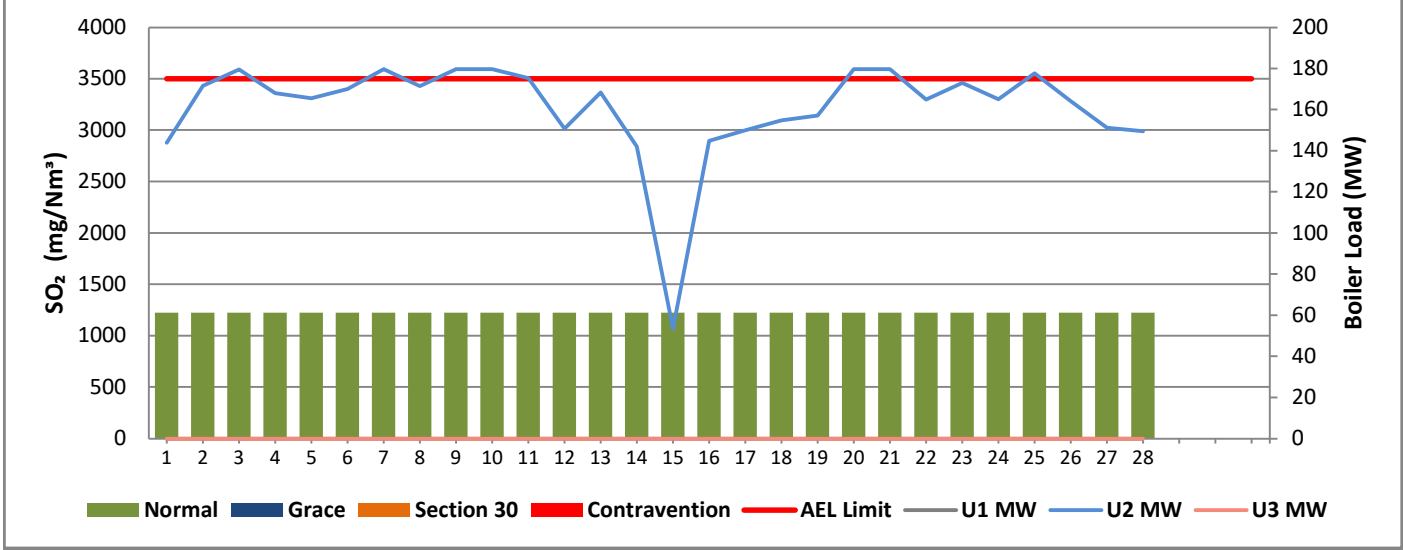


Figure 4: Grootvlei South Stack SO₂ Emissions - February 2026

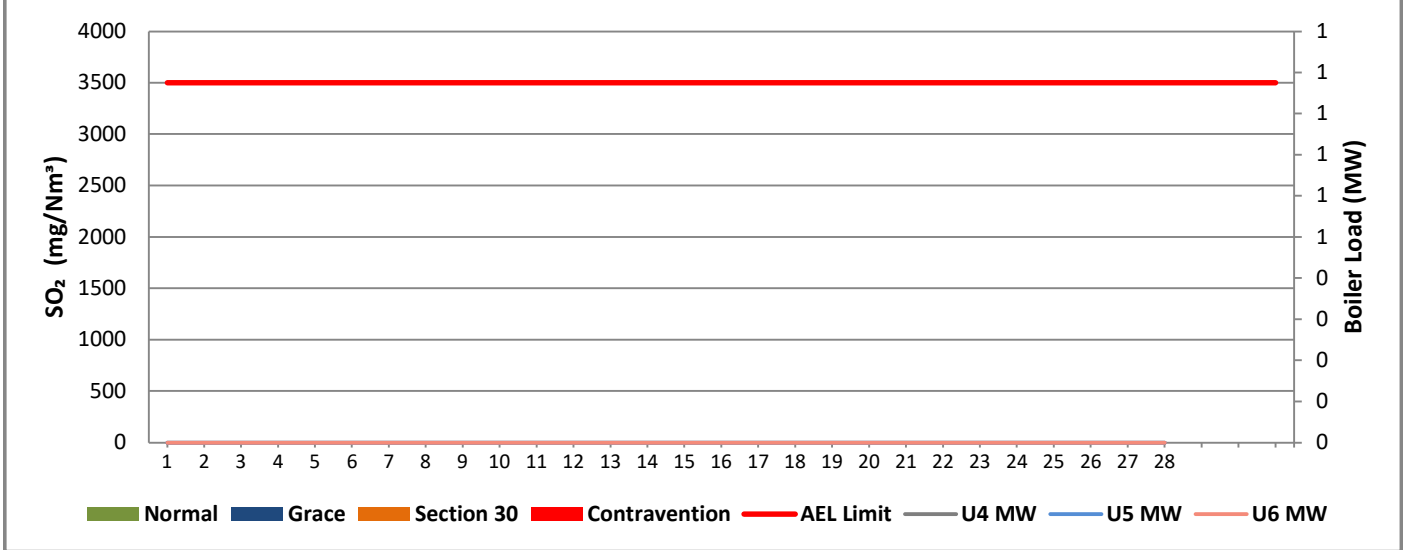


Figure 5: Grootvlei North Stack NO_x Emissions - February 2026

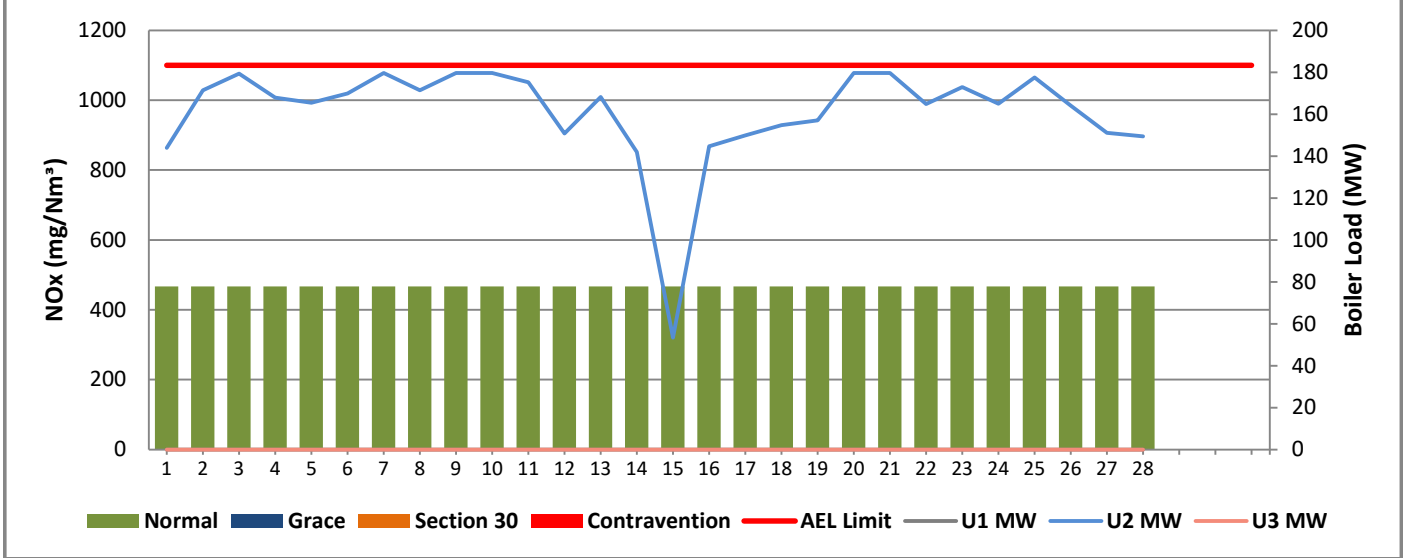
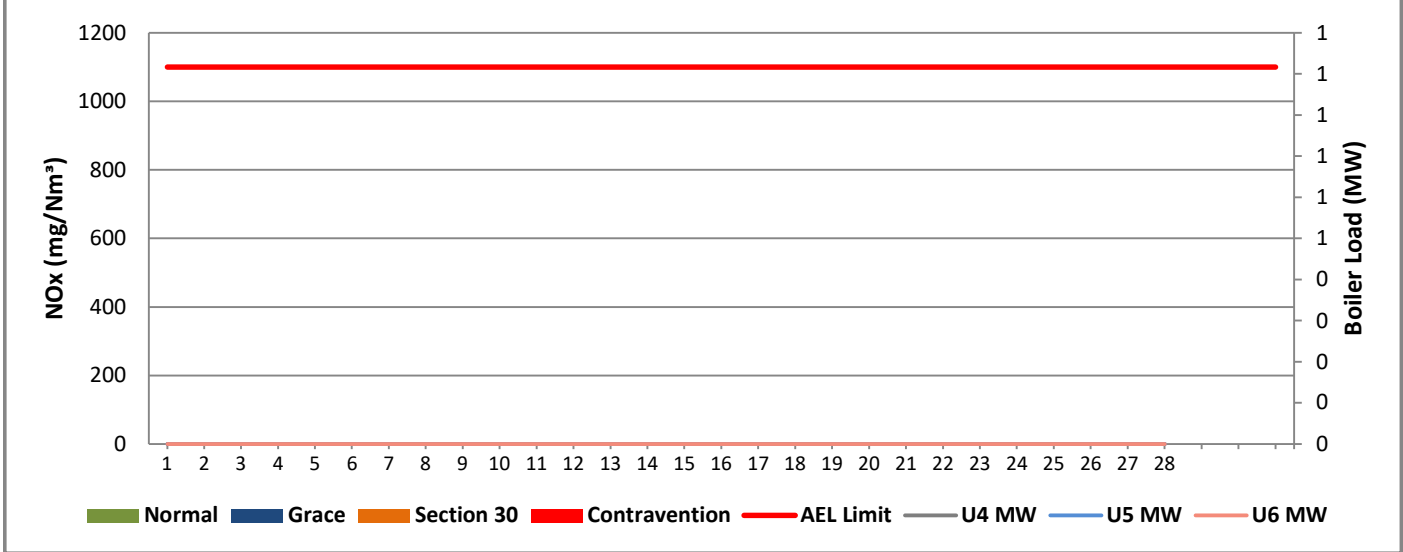


Figure 6: Grootvlei South Stack NO_x Emissions - February 2026



7 COMPLAINTS

There were no complaints for this months

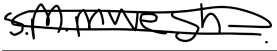
Source Code / Name	Root Cause Analysis	Calculation of Impacts / emissions associated with	Dispersion modeling of pollutants where	Measures implemented to prevent reoccurrence

8 GENERAL

South Stack offline as unit 4,5 &6 are on extended cold reserved.

For gaseous reporting surrogate values were used as gas analyser is not working and access to inaccessible due to issues with lift. Busy Modification contracts in order to fix the North Stack Lift.

Correlation test expired last year March 2025 and we awating to have atleast 2 units on load and access to the analyser.



14/04/2026

Boiler System Engineer

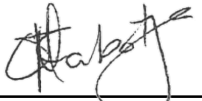
Date



Environmental Practitioner

14/04/2026

Date



2026/04/21

General Manager

Date

Compiled by: Boiler Engineering Department

FFP System Engineer

For: Gert Sibande District Municipality

Air Quality Officer

Copies: Generation Environmental Management

D Herbst
B Mccourt

Generation Compliance Management
Generation Asset Management

R Rampiar
E Patel

Grootvlei Power Station:

Engineering Manager
Operating Manager
Maintenance Manager
Production Manager
Boiler Engineering Manager
System Engineer
Environmental Manager