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Date:
31 May 2025

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Dear Mrs Tebogo Mogakabe

GROOTVLEI POWER STATION'S ANNUAL EMISSIONS REPORT FOR FY 2024/25

This serves as the annual report required in terms of Section 7.6.2 of Grootvlei Power Station's Atmospheric Emission Licence, as well as in terms of the reporting requirements listed in the Minimum Emission Standards. The emissions are for Eskom's 2024/25 financial year, which is from 1 April 2024 to 31 March 2025. Verified emissions of particulates matter (PM), as measured by installed monitors and SO₂ and NO_x (as NO₂), as measured by the installed continuous Emissions Monitoring Systems) CEMS calculation, are also included. The Report also accounts for tests conducted and state of calibrations conducted for the financial year 2024/25.

Name of facility	Eskom Holdings SOC Limited, Grootvlei Power Station
Description of facility	Grootvlei Power Station
Reference number of plant	Dipaleseng/Eskom H SOC Ltd GPS/0015/2024/F04

Emission Trends

The emissions in the Table below are that of the 2024/2025 financial year.

	Coal-fired emissions (tons/annum)	Fuel-oil emissions (tons/annum)	Total (tons/annum)
Grootvlei Power Station	PM: 418.45	PM: N/A	PM: 418.45
	SO ₂ : 14193	SO ₂ : 928.31	SO ₂ : 15121.31
	NO _x : 9 583	NO _x : N/A	NO _x : 9 583

Table 1: General overview of emissions at Grootvlei Power Station 2024/2025

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Please note: Gaseous emissions, are largely dependent on the power generated by the Power Station, and thus the quantity and quality of coal burnt.

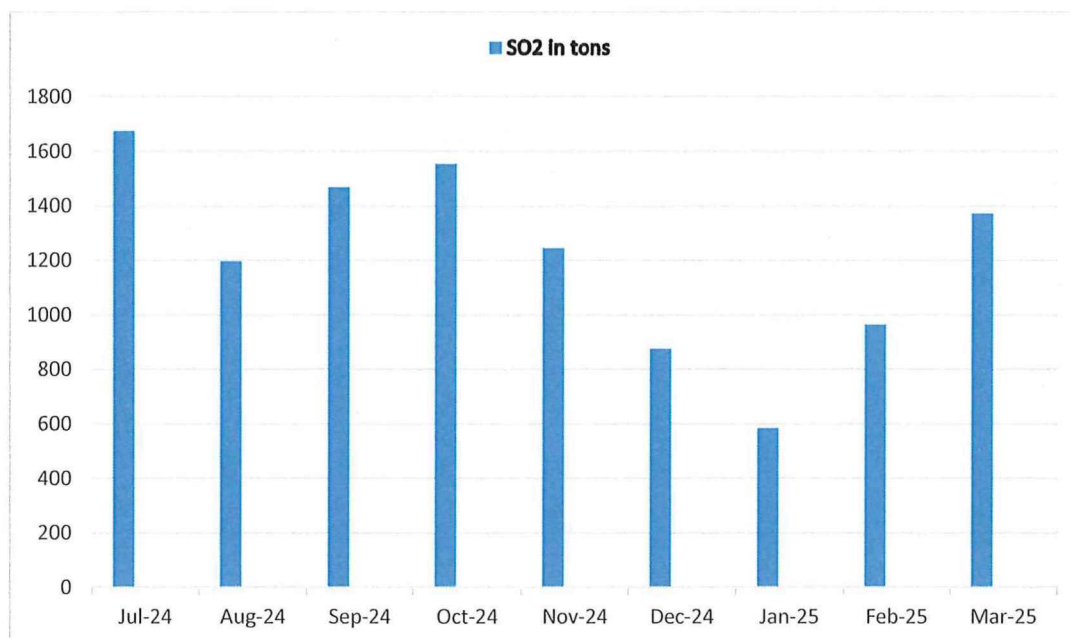
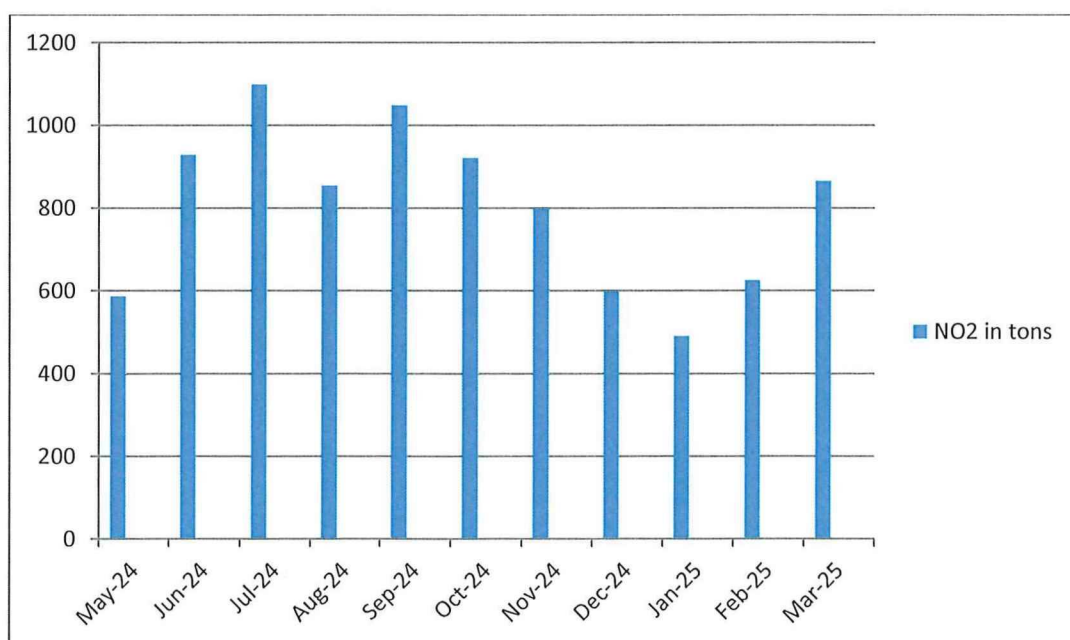


Figure 1: Monthly SO₂ Emissions in tons from Grootvlei Power Station 2024/25



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Figure 2: Monthly NO₂ Emissions in tons from Grootvlei Power Station 2024/25

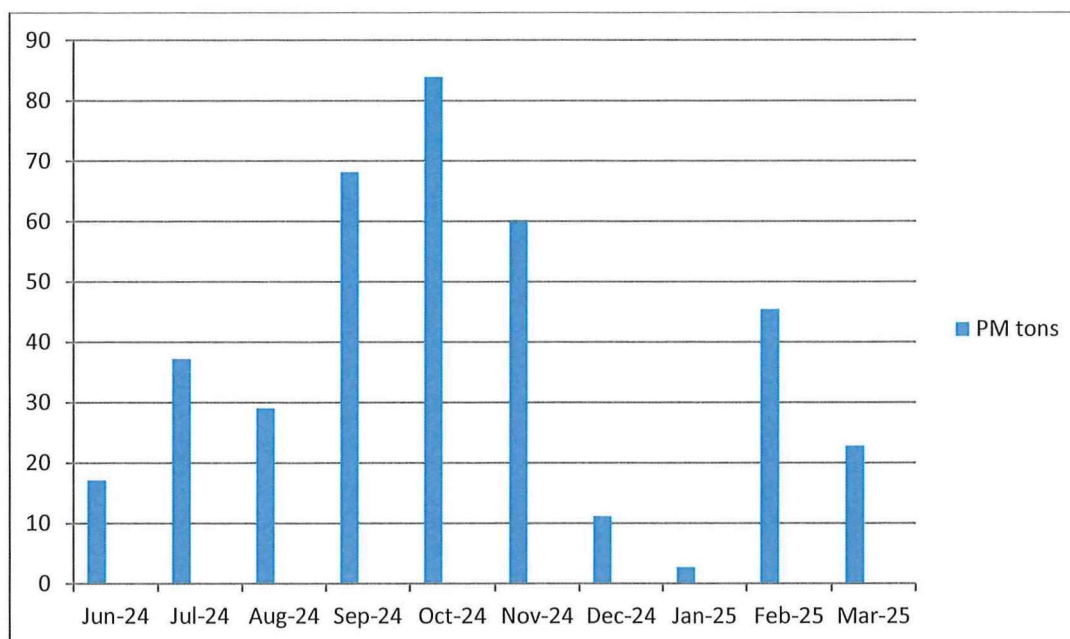


Figure 3: Particulate Matter at Grootvlei Power Station 2024/25

Monitoring Data Availability

Table 2 General oversight of monitoring data availability for Grootvlei Power Station 2024/25 in terms of the number of full hours per annum that valid results were obtained for the CEMS in question.

	North Stack	South Stack
PM	8664	N/A
SO ₂	8664	N/A
NO _x	8664	N/A

Table 2: General oversight of monitoring data availability

Complaints Received

- No complaint was received during the 2024/25 reporting period.

Compliance Audit Report(s)

- Compliance inspection by the GSDM on 3 April 2025
- AEL internal Review January 2025
- AEL external Audit Deloitte 05 March 2025

Major Upgrades Projects

- No major upgrade was undertaken, however only three units are on load Unit 1, 2 and 3.

Greenhouse Gas Emissions

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- Greenhouse Gas Emissions in terms of CO₂ are reported in terms of the Green House Gas Reporting regulations and as advised by the National Air Quality Officer not in the Atmospheric Emission Licence Reports.

State of the Air Quality Offset project

- An offset plan was developed and piloted at Kwazamokuhle Hendrina. This offset plan covers 2019 to March 2025. It is envisioned that Grootvlei Power Station should have completed rolling out an intervention at one decent sized settlement (at least) by end March 2025 as part of phase II of the project which should be finalized by 01 April 2028
- The preliminary schedule depends on funds made available. Should there be a cut in the allocation of funding to this project, it will translate directly into a delay in this schedule. Authorization was acquired from GSDM. The annual progress report and update plan in respect of offsets was submitted to the GSDM on 31 March 2025. The progress feedback was given to GSDM on 22 May 2025 during the GSDM HPA ITT.

Results of spot measurements or correlation tests

- Successful with challenges and report is attached - Annexure A1

Stack/ Unit	PM	SO ₂	NOx
North Stack	20 June 2024	13 April 2024	13 April 2024
South Stack	No Unit Running	No Unit Running	No Unit Running

Table 3: Overview of dates of last conducted CEMS verification tests for PM, SO₂ and NOx (Please note that the parallel test reports are attached with this Annual report. The test for gases was conducted by Inthuu Measurement and Luvengo Environmental . All tests were conducted under normal and fitting conditions.

An explanation of all instances where minimum emission standards were exceeded:

- There were incident of exceedance during the 2024/25 financial year for Grootvlei Power Station. But there was no NEMA section 30 incident incurred.

Exceedance	Stack/unit and pollutant	Exceedance date [from – to]	Reason for exceedance	Remediation measure and effectiveness
1	PM on the north stack	21-22 and 29-30 September 2024	Because of Damaged FFP bags	Damaged bags were replaced
2	SOx North stack	21-22 September	Poor coal quality and light ups	The coal is analyzed before fed to the plant

Table 4: Overview of daily average limit exceedances for 2024/25 Financial Year

NAEIS Reporting

- Grootvlei Power Station to submit its NAEIS annual report by the 31 June 2025. As required by DEFF.

Ambient Monitoring

- Eskom continues to submit monthly ambient monitoring reports as required to the authorities in respect of the Grootvlei monitoring station. There is improvement in data recovery there was less power outages during the 2024/25 financial year

MES Application

- The MES (Minimum Emission Standards) postponement decision was made by the minister of DEFF.

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Grootvlei Status of Compliance

Statute	Area of non-compliance	Corrective action
Water Use license	Some Ground water quality Objectives such as TDS, EC, Sulphates are not met	Pollutant are being eliminated from source
AEL	Fugitive dust monitoring is not conducted	Commercial process underway
	Offset Project implementation not implemented for Grootvlei	Grootvlei offset project is schedule for 2028 as part of phase II

Grootvlei Power Station has and continues to meet its legal obligations in terms of condition 4.5 of the License. Through excises like Reviews, internal and external audits this has been confirmed that our compliance obligations against, Water Use License, Atmospheric Emissions license, Waste Permit, and Environmental Authorization (Return to Service - ROD) is satisfactory.

However, there were challenges with the Fugitive dust monitoring reporting. The monitoring is still not conducted so reports are not submitted for 2024/25 reports were not submitted. We are also experiencing exceedance TDS, EC and Sulphates on the Ground water Quality objectives, Department of water and Sanitation has seen the reports.

The rest of the information demonstrating compliance with the emission licence conditions is supplied in the monthly emission reports sent to your office on monthly basis.

Yours sincerely



Themba Mokgosi

GENERAL MANAGER: GROOTVLEI (ACTING)

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