

Gourikwa Power Station

Annual Report 2026



COMPILED BY: Maureen Dlulisa

DATE: May 2026

Contents

1. ENTERPRISE DETAILS.....	3
1.1 ENTERPRISE DETAILS.....	3
1.2 FACILITY BACKGROUND LOCATION AND EXTENT OF THE PLANT	4
1.3 ATMOSPHERIC EMISSION LICENSE AND OTHER AUTHORISATIONS.....	6
2. NATURE OF THE PROCESS	6
2.1 LISTED ACTIVITY.....	6
2.3 UNIT PROCESSES.....	7
3. TECHNICAL INFORMATION	7
3.1 RAW MATERIALS USED.....	7
3.2 APPLIANCES AND ABATEMENT EQUIPMENT CONTROL TECHNOLOGY	8
4. ATMOSPHERIC EMISSIONS:	9
4.1 POINT SOURCE PARAMETERS.....	9
4.2 FUGITIVE EMISSIONS (AREA AND OR LINE SOURCES)	10
4.3 EMERGENCY INCIDENTS.....	10
4.4 EMISSIONS.....	10
5. IMPACT OF ENTERPRISE ON THE RECEIVING ENVIRONMENT	13
5.1 ANALYSIS OF EMISSIONS' IMPACT ON HUMAN HEALTH.....	13
5.2 ANALYSIS OF EMISSIONS' IMPACT ON THE ENVIRONMENT.....	13
6. COMPLAINTS	13
7. CURRENT OR PLANNED AIR QUALITY MANAGEMENT INTERVENTIONS	14
8. COMPLIANCE AND ENFORCEMENT HISTORY	14
8.1 CONTINUOUS EMISSION MONITORING SYSTEM.....	14
8.2 COMPLIANCE AUDIT REPORT(S):.....	14
8.3 MAJOR UPGRADES.....	14
8.4 ABATEMENT EQUIPMENT CONTROL TECHNOLOGY AVAILABILITY (%)	14
8.5 LEAK DETECTION AND REPAIR PROGRAMME	15
8.6 BTEX MONITORING	15
9. NAEIS REPORTING.....	15
10 FORMAL DECLARATIONS	16

1. ENTERPRISE DETAILS

1.1 ENTERPRISE DETAILS

Enterprise Name	Eskom Holdings SOC Limited
Trading As	Gourikwa Power Station
Enterprise Registration Number	2002/015527/30
Registered Address	Rosenpark, 15 Pasita Street, Bellville
Postal Address	P O Box 10438, Dana Bay, 6510
General Telephone Number	044 606 3400
Industry Sector	Electricity Generation
Name of the Responsible Officer	Pamela Mrubata (Plant Manager)
Name of Emission Control Officer	Maureen Dlulisa
Telephone Number	021 573 6000
Cellular Phone Number	083 404 9740
Fax Number	086 538 6505
Email Address	Dlulism@eskom.co.za
After Hours Contact Details	083 404 9740
Land Use Zoning as per Town Planning Scheme	INDUSTRIAL Zone 1

1.2 FACILITY BACKGROUND LOCATION AND EXTENT OF THE PLANT

Physical Address of Premises	PetroSA Landfill Site Mossel Bay, 6500
Description of Site	Gourikwa power plant is located approximately 13km west of Mossel Bay, and approximately 1km west of the PetroSA facility, north of the N2.
Co-ordinates of Centre of Operations	Latitude: 34.164722° Longitude: 21.961667°
Property Registration Number (Surveyor - General Code)	W043C051000000000399000000
Extent (km ²)	81.8908 hectares
Elevation Above Mean Sea Level (m)	190 m
Province	Western Cape
District Municipality	Garden Route District Municipality
Local Municipality	Mossel Bay Local Municipality
Designated Priority Area	N/A

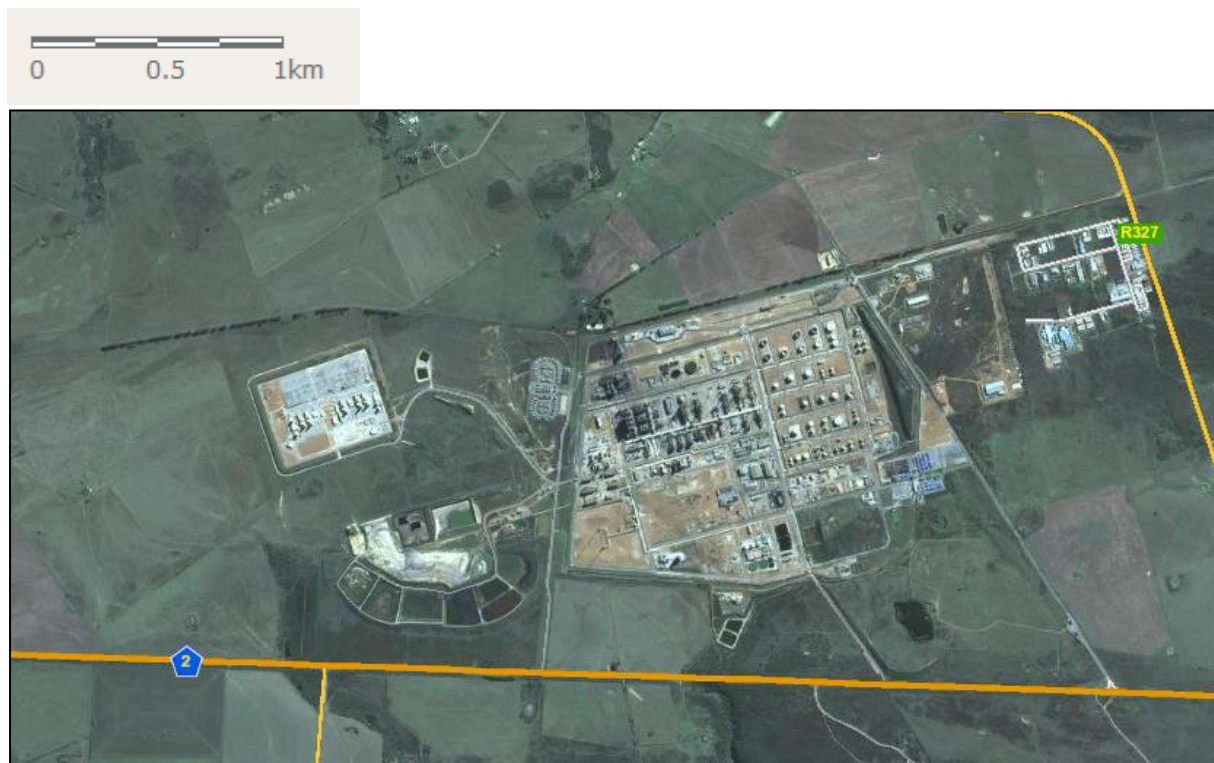


Figure 1: Gourikwa in relation to its surroundings

All areas within a 5 km radius.

- North:
 - Agricultural
- East:
 - Petro SA Industrial: 1 km
 - Mossel Bay Residential 9.9 km
- South East:
 - Dana Bay Residential 6.8 km
- South:
 - Waste Disposal Site 0.5 km
 - Transportation: N2 1.2 km
 - Agricultural > 5km
- West:
 - Agricultural

1.3 ATMOSPHERIC EMISSION LICENSE AND OTHER AUTHORISATIONS

Name of Licensing Authority	Garden Route District Municipality
Atmospheric Emission License Number	WCED013
Date that AEL was Issued	17 May 2023
Type of AEL	Full
Review Date	Annually on a date determined by Licensing Authority
Renewal Application Date	30 April 2028

2. NATURE OF THE PROCESS

2.1 LISTED ACTIVITY

Listed Activity No.	Category of Listed Activity	Sub-category of Listed Activity	Listed Activity Name	Description of Listed Activity
1	Category 1	Subcategory 1.2	Liquid fuel combustion installations	Liquid fuels combustion installations used primarily for steam raising or electricity generation.
2	Category 2	Subcategory 2.4:	Storage and Handling of Petroleum Products.	Petroleum product storage tanks and product transfer facilities, except those used for liquefied petroleum gas.

2.3 UNIT PROCESSES

Unit Process	Function of Unit Process	Batch or Continuous Process
Unit 11	Power Generation 150MW	Intermittent
Unit 12	Power Generation 150MW	Intermittent
Unit 13	Power Generation 150MW	Intermittent
Unit 21	Power Generation 150MW	Intermittent
Unit 22	Power Generation 150MW	Intermittent
Fuel storage	Fuel storage	Continuous

3. TECHNICAL INFORMATION

3.1 RAW MATERIALS USED

Regulated Raw Materials		
Raw Material Type	Maximum Permitted Consumption Rate (Quantity)	Units (quantity/period)
Diesel	40 000	Litre/hour/unit
Non-regulated Raw Materials		
Raw Material Type	Maximum Permitted Consumption Rate (Quantity)	Units (quantity/period)
Environmentally friendly solvent	100L mixed with 400L water per unit	Litre/Month/unit

* Regulated raw materials refers to those materials when increased or decreased may result in the change of air emissions output.

* Non-regulated raw materials refer to those materials when increased or decreased may not result in any change of air emissions output.

Materials for Energy Source	Actual Consumption Rate (Quantity)	Units (quantity / period)	Max Sulphur Content of Fuel (%)	Max Ash Content of Fuel (%)
Diesel	40 000	Litres/hour/unit	0.05	Trace amounts

3.2 APPLIANCES AND ABATEMENT EQUIPMENT CONTROL TECHNOLOGY

Appliances				Air Pollution Control Technology							
Associated Source Code/ Stack I.D.	Appliance / Process Equipment Number	Appliance type/ Description	Appliance Serial Number	Appliance Manufacture Date	Product Name and Model	Technology Type	Commission Date	Date of Significant Modification /Upgrade	Design Capacity	Permitted Minimum Control Efficiency (%)	Permitted Minimum Utilization (%)
Unit 11	11MBM12	Low NO _x burners	N/A	Unknown	CEMS Analyzer	(Siemens)	2007	n/a	N/A	NO _x emissions < 250 mgNm ³¹	100%
Unit 12	12MBM12	Low NO _x burners	N/A	Unknown	CEMS Analyzer	(Siemens)	2007	n/a	N/A		100%
Unit 13	13MBM12	Low NO _x burners	N/A	Unknown	CEMS Analyzer	(Siemens)	2007	n/a	N/A		100%
Unit 21	21MBM12	Low NO _x burners	N/A	Unknown	CEMS Analyzer	(Siemens)	2008	n/a	N/A		100%
Unit 22	22MBM12	Low NO _x burners	N/A	Unknown	CEMS Analyzer	(Siemens)	2008	n/a	N/A		100%

¹ As per license

4. ATMOSPHERIC EMISSIONS:

4.1 POINT SOURCE PARAMETERS

Point Source code/ stack I.D.	Source name	Latitude (decimal degrees)	Longitude (decimal degrees)	Height of Release Above Ground (m)	Height Above Nearby Building (m)	Diameter at Stack Tip / Vent Exit (m)	Actual Gas Exit Temperature (°C)	Actual Gas Volumetric Flow (m ³ /hr)	Actual Gas Exit Velocity (m/s)
1	Stack 11	34.166641	21.961986	30	18	6	560	1200	40
2	Stack 12	34.166399	21.962847	30	18	6	560	1200	40
3	Stack 13	34.166283	21.963260	30	18	6	560	1200	40
4	Stack 21	34.167331	21.959516	30	18	6	560	1200	40
5	Stack 22	34.167211	21.959926	30	18	6	560	1200	40

4.2 FUGITIVE EMISSIONS (AREA AND OR LINE SOURCES)

The fuel storage tanks vent to the atmosphere. No fugitive monitoring is conducted on site. The Environmental Management Plan is however in place, which guides the processes and procedures to be taken in the event of a leak. Any leaks are logged, managed and reported.

4.3 EMERGENCY INCIDENTS

No incidents occurred during the reporting period.

4.4 EMISSIONS

Table 4.4.1: General overview of emissions at Gourikwa Power Station - 2023/2024 to 2025/2026

Year	NO _x Total (Tons/annum)	PM Total (Tons/annum)	SO ₂ Total (Tons/annum)	CO ₂ Total (Tons/annum)
2025/2026	406.97	0	2.2920	298 790. 305
2024/2025	840.582	0	4.13	846 146. 498
2023/2024	2072.258	0	9.309	1 671 361.70

Table 4.4.2: Annual figures of emissions, energy sent out and fuel usage at Gourikwa Power Station 2023/2024 – 2025/2026

Year	Energy Sent Out (GWh)	Diesel used (tons)
2025/2026	368.309	94 643.75
2024/2025	1041.458	263 267.61
2023/2024	2038.316	514 198.89

Table 4.4.3: Pollutant Emission Trends for 2025/2026 financial year

Financial Year 2025/2026						
Month	NO _x (tons) Calculated Values	SO ₂ (tons) Calculated Values	CO ₂ (tons) Calculated Values	PM (tons) Measured Values	Diesel consumed (tons)	MWh Sent Out
Apr 2025	118.319	0.812	99 107.127	0	31 392.818	121 969
May 2025	741.560	0.607	61 982.424	0	19 633.330	75 627
June 2025	982.00	0.495	73 946.894	0	23 423.153	92 548
July 2025	484.08	0.254	46 667.874	0	14 782.348	58 560
Aug 2025	6.814	0.013	7 322.251	0	2 319.370	9131
Sept 2025	0.308	0.002	356.305	0	112.862	426
Oct 2025	4.193	0.042	2 853.864	0	903.980	3156
Nov 2025	2.900	0.01	2 613.085	0	827.711	3264
Dec 2025	3.229	0.17	2 186.720	0	692.657	2452
Jan 2026	0.0212	0.001	255.035	0	80.784	285
Feb 2026	0.0	0.0	0	0	0	0.000
Mar 2026	1.572	0.039	1 498.727	0	474.731	890
Totals	358 311.000	2.292	298 790. 305	0	94 643.75	368 309

*The station reports on calculated CO₂ values for consistency otherwise SO₂, PM and NO_x are measured as reported in monthly emission reports.

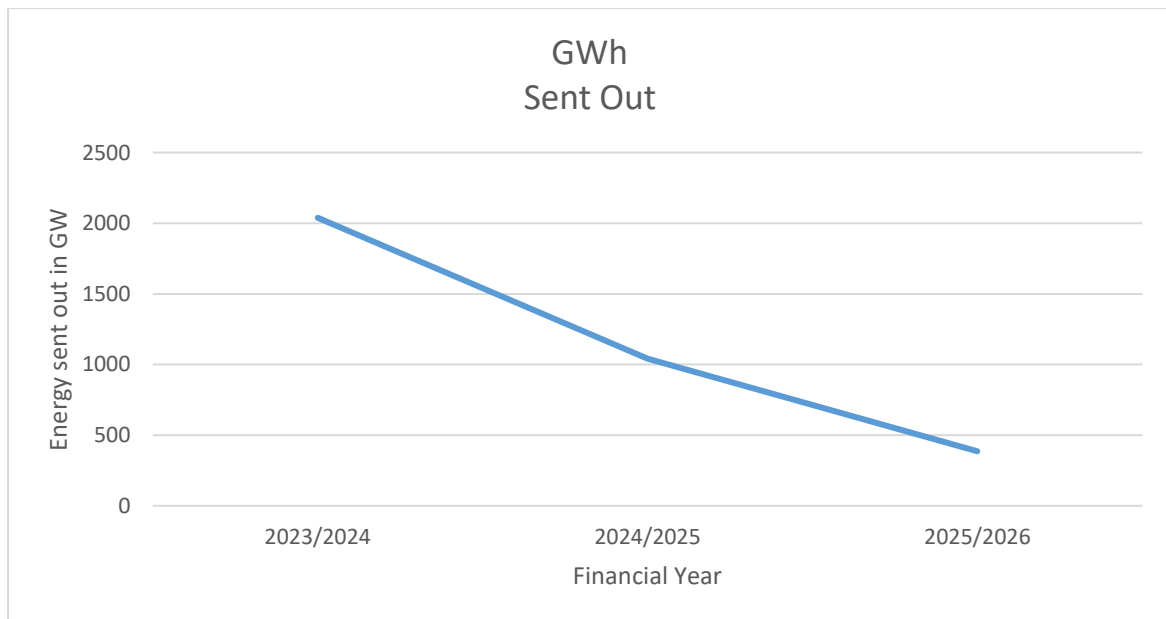


Figure 1: Annual GWh sent out between 2023 and 2026 for Gourikwa Power Station

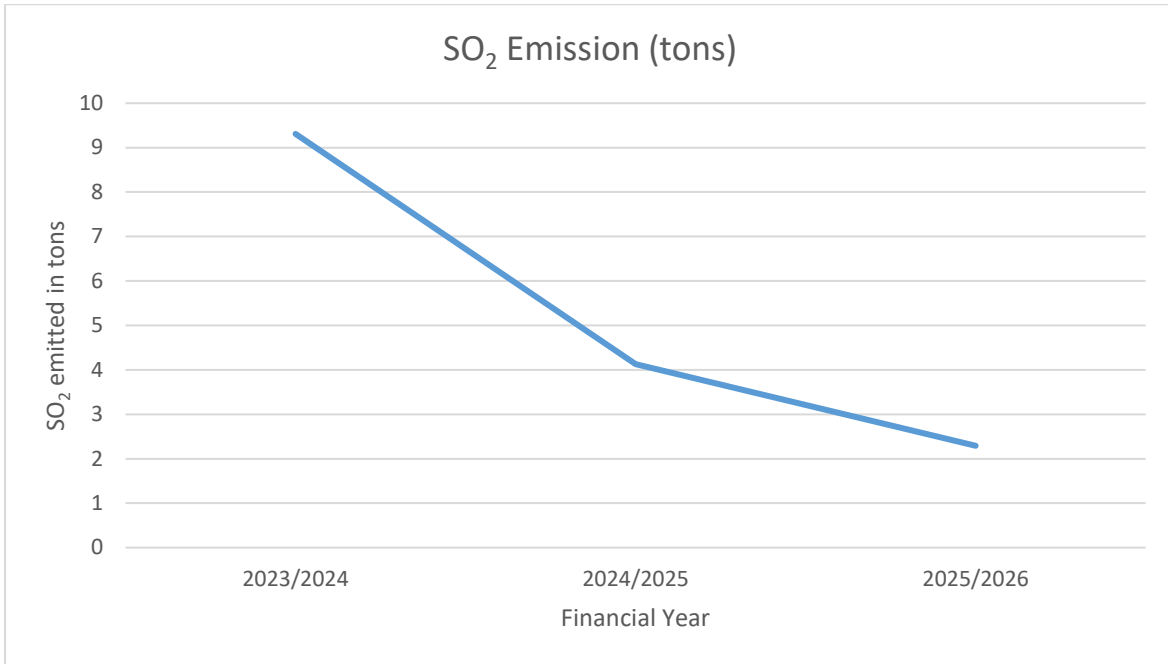


Figure 2: Annual SO₂ Emissions in tons between 2023 and 2026 for Gourikwa Power Station

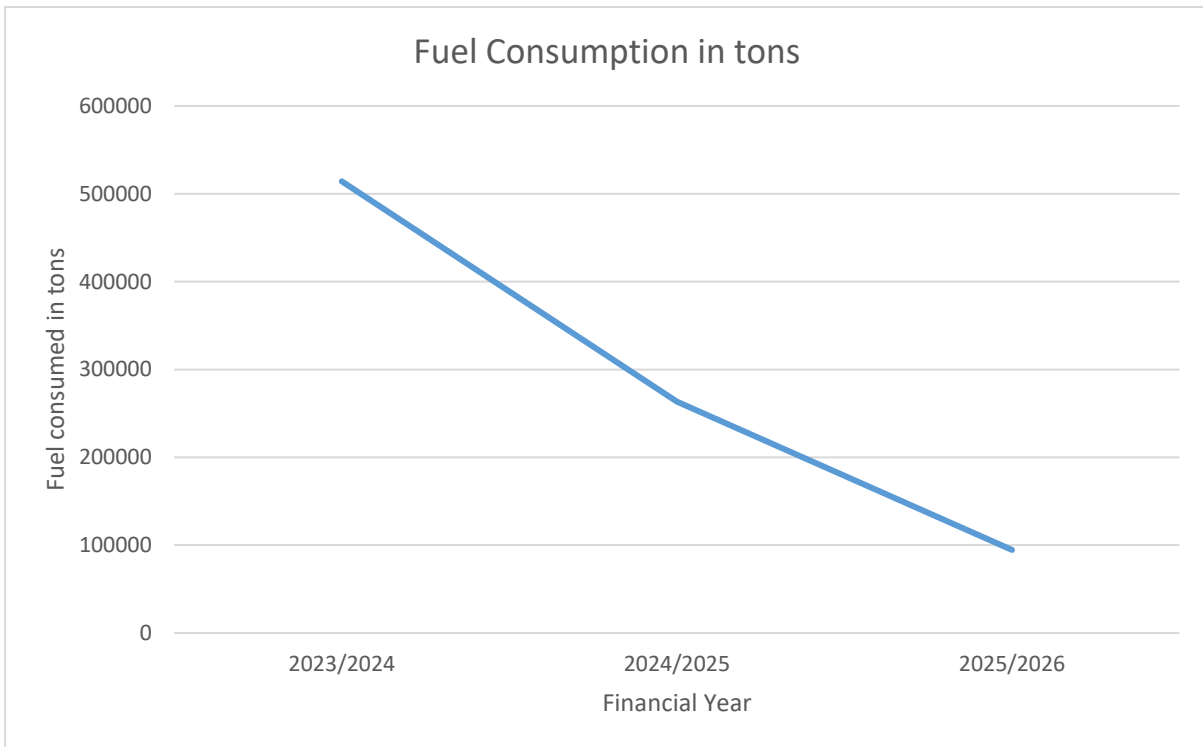


Figure 3: Annual fuel usage in tons between 2023 and 2026 for Gourikwa Power Station

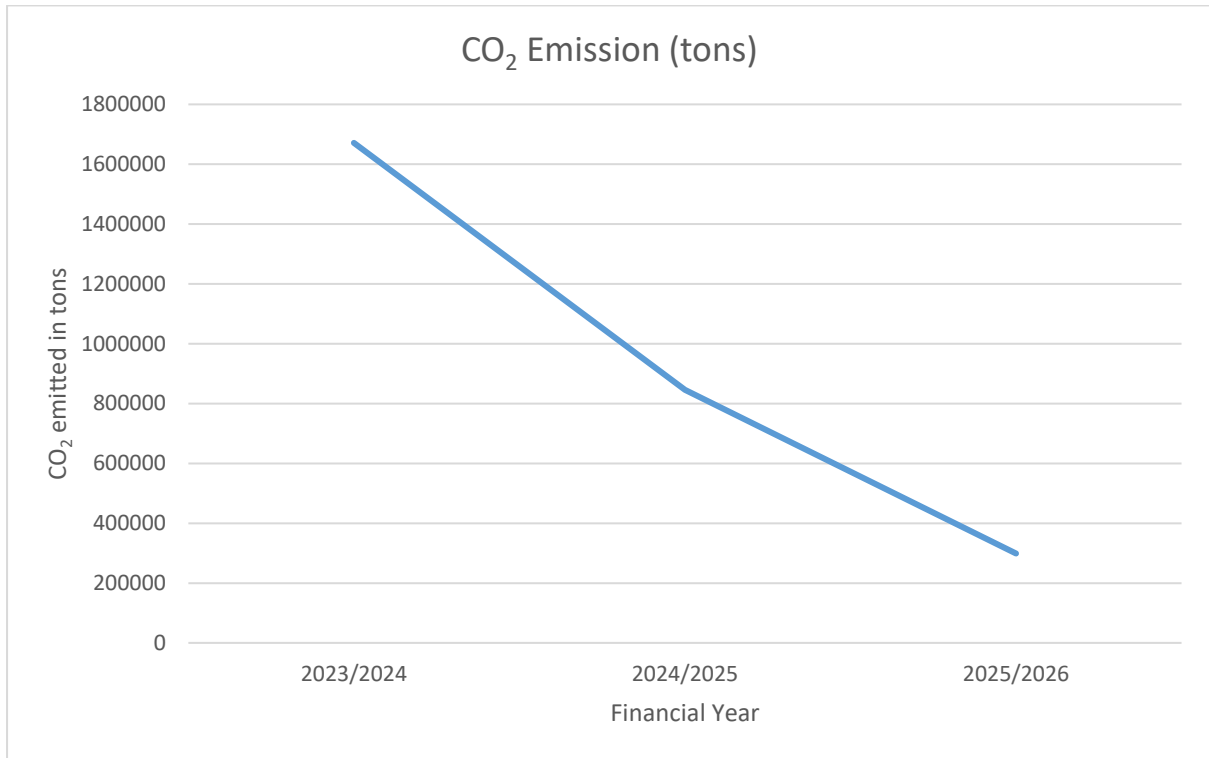


Figure 4: Monthly CO₂ Emissions in tons between 2023 and 2026 for Gourikwa Power Station.

5. IMPACT OF ENTERPRISE ON THE RECEIVING ENVIRONMENT

5.1 ANALYSIS OF EMISSIONS' IMPACT ON HUMAN HEALTH

The Ambient Monitoring Station is located at the Garden Route District Municipal offices. Monthly reports are received, and analysis of emissions is done.

5.2 ANALYSIS OF EMISSIONS' IMPACT ON THE ENVIRONMENT

No analysis conducted during 2025/26 financial year period.

6. COMPLAINTS

No complaints were received in the past financial year. No complaints have been received for the last five years.

Monitoring data availability

Table 4.4.4 General oversight of monitoring data availability

	Unit 11	Unit 12	Unit 13	Unit 21	Unit 22
PM	8759	8530	8760	8760	8760
SO ₂	8759	8530	8760	8760	8760
NOx	8466	8212	8644	8759	8760
CO	8759	8530	8760	8760	8760

CEMS at Gourikwa Power Station, for the period 2025/2026 in terms of the number of full hours that valid results were obtained for the CEMS is approximately 95% of the time.

8.5 LEAK DETECTION AND REPAIR PROGRAMME

The station has not had any major fuel leaks that required reporting in terms of the Leak Detection and Repair Programme or legislation. Plant walk downs are performed at the start of every shift as per procedure (Weekly Inspection and Routine Operation of Power Station, Doc No.: OP-UCA-001r).

8.6 BTEX MONITORING

The station is required, in terms of the Atmospheric Emission Licence condition 7.6.2, to conduct a 2-week sampling regime in April and October and to submit the report to the authorities. In the period under review in October 2025, no BTEX report is available.

8.7 NAEIS REPORTING

Eskom has reported Gourikwa Power Station's emissions as per the NAEIS system requirement for year 2025 and is currently busy with the 2026 submission.

Hoping the above will meet your satisfaction. For any queries please do not hesitate to contact Maureen Dlulisa (021 573 6162).

Yours sincerely



pp
Pamela Mrubata
GOURIKWA POWER STATION

10. FORMAL DECLARATIONS

10.1 ANNEXURE A: DECLARATION OF ACCURACY OF INFORMATION

Please sign a written declaration indicating that the contents of annual report are true reflection of information provided.

DECLARATION OF ACCURACY OF INFORMATION

I, **Pamela Mrubata**, Plant Manager for **Gourikwa Power Station**, hereby declare that the information as contained in the above annual report is true and accurate.

Signature: ^{pp} -----

Date: 26 May 2026-----