

Mr TD Hlanyane Gert Sibande District Municipality C/o Joubert and Oosthuise Street ERMELO 2350

Date: 19 May 2021

Enquiries: 017 827 8246 Fikile Sithole

Ref: CAM-ENV/ANNUAL/2020-EM001

Dear Mr. D. Hlanyane

CAMDEN POWER STATION'S ANNUAL EMISSIONS REPORT

This serves as the annual report required in terms of Section 7.6 (Routine reporting and record keeping) in Camden Power Station's Atmospheric Emission License (Msukaligwa/Eskom H SOC Ltd/CPS/0012/2019/F03). The emissions are for Eskom's 2020/2021 financial year which is from 1 April 2020 to 31 March 2021. Verified emissions of particulates, SO₂, NO_x (as NO₂) and the greenhouse gases CO₂ and N₂O are also included.

Category of Listed	Sub-Category of	Listed Activity	Description of the
Activity	Listed Activity	Name	Listed Activity
Category 1	Sub-category 1.1	Solid Fuel	Solid fuel
		Combustion	combustion
		Installations	installation used
			primarily for steam
			raising or electricity
			generation
Category 2	Sub-category 2.4	Storage and	Storage and
		handling of	Handling of
		Petroleum Products	Petroleum Products.

-	2	-	

Category 5	Sub-category 5.1	Storage and	Storage and
		handling of ore and	handling of ore and
		coal	coal not situated on
			premises of mine or
			works as defined in
			the Mines Health
			and Safety Act
			29/1996.

Pollutant Emission Trends and Greenhouse Gas Emissions:

Particulate emissions are measured at all power stations with opacity monitors, which are correlated to obtain emission concentrations. Gaseous emissions (CO₂, N₂O, SO₂ and NO_x) are calculated from mass balances for SO₂ and CO₂, from station-specific emission factors for NO_x and from a generic emission factor for N₂O.

Continuous emission monitors are installed on all four stacks and Eskom will report on the gaseous emission measurements in the annual reports once we are satisfied that the continuous emission measurements are at least as accurate as the calculations.

Power Station	Coal-fired emissions (tons/annum)	Fuel-oil emissions (tons/annum)	Total (tons/annum)
Camden	CO₂: 3271272	CO₂: 54014	CO ₂ : 3325286
	N₂O: 16.948	N₂O: not calculated	N₂O: 16.948
	PM: 234.90	PM: not calculated	PM: 234.90
	SO ₂: 19538	SO₂: 1018.75	SO ₂ : 20556.75
	NO_x: 13899	NO _x : not calculated	NO _x : 13899

Table 1: General oversight of emissions at Camden Power Station 2020/2021

Month	PM (tons)	SO ₂ (tons)	NO _x (tons)	CO ₂ (tons)	N ₂ O (tons)
April 2019	71	1878	1370	311369	2
May 2019	0	0	0	0	0
June 2019	0	0	0	0	0
July 2019	0	0	0	0	0
August 2019	2	0	0	0	0
September 2019	18	1596	1392	336346	2
October 2019	30	3322	2254	533629	3
November 2019	21	3297	2198	509275	3
December 2019	22	2502	1841	437186	2
January 2020	24	2119	1582	377041	2
February 2020	26	2110	1510	359230	2
March 2020	21	2712	1752	407195	2

Table 2 above provides information on the monthly emissions for PM, SO₂, NO_x, CO₂ and N₂O. This will be further illustrated graphically below:

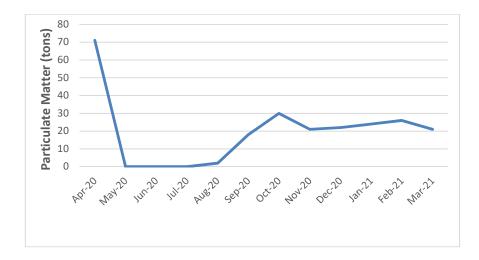


Figure 1: Monthly Particulate Emissions in tons from Camden Power Station 2020/2021

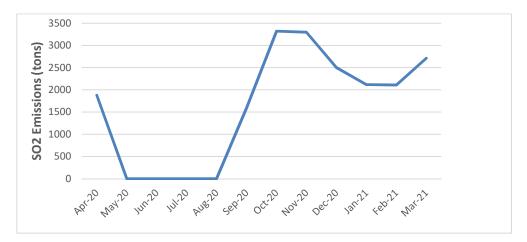


Figure 2: Monthly SO₂ Emissions in tons from Camden Power Station 2020/2021

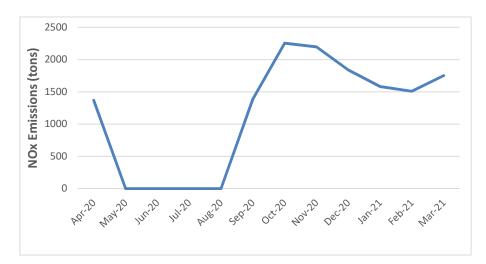


Figure 3: Monthly NO_x Emissions in tons for Camden Power Station 2020/2021



Figure 4: Monthly CO₂ Emissions in tons from Camden Power Station 2020/2021



Figure 5: Monthly N₂O Emissions in tons from Camden Power Station 2020/21

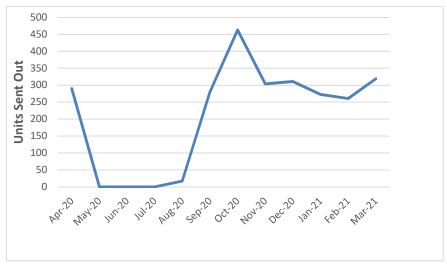


Figure 6: Monthly Energy sent out in GWh at Camden Power Station 2020/2021

Monitoring data availability:

	Stack 1	Stack 2	Stack 3	Stack 4
РМ	100 %	100 %	100 %	100 %
SO ₂	100 %	100 %	100 %	100 %
NOx	100 %	100 %	100 %	100 %

DATE: 19 MAY 2021

SUBJECT: CAMDEN POWER STATION'S ANNUAL EMISSIONS REPORT

The next Audit is scheduled for August 2021, once done the report will be submitted to the Licensing Authority.

Major Upgrade Projects:

All eight units now have Low NOx burners installed.

Greenhouse Gas Emissions:

Greenhouse gas emissions (CO₂ and N₂O) are included in Table 2 as well as Figures 4 and 5 above.

Complaints Register:

No complaints were received during the reporting period.

National Atmospheric Emissions Inventory System

In terms of the pollutants and greenhouse emissions, Camden Power Station has reported on the NAEIS portal for 2020.

Status of Stratification, Parallel and Correlation test.

Parallel and Correlation tests on all stacks were conducted and completed in 2020 and 2021, see attached reports.

Hoping the above will meet your satisfaction.

Yours sincerely

Bonga Mashazi GENERAL MANAGER: CAMDEN