

Dr Johan Schoeman
Air Quality Management Services
Eden District Municipality
PO Box 12
GEORGE
6530

Date:
15 March 2023

Enquiries:
021 573 6162

Ref: GOU/2023/02

Dear Dr Schoeman

GOURIKWA POWER STATION'S MONTHLY EMISSIONS REPORT FOR THE MONTH OF FEBRUARY 2022

This serves as the monthly report required in terms of Section 9 in Gourikwa Power Station's Atmospheric Emission License (WCED013). The report addresses the period from 1-28 February 2023 and covers Particulate Matter, CO, SO₂ and NO_x (as NO₂) emissions.

1. Raw Materials and Products

Table 1: Quantity of Raw Materials and Products used/produced in Normal Operation

Raw Materials and Products used	Raw Material Type	Unit	Maximum Permitted Consumption/ Rate (Quantity)	Total consumption for the Month in litres
	Fuel Oil/diesel	Tons/hour/unit	40	47 045 711.66
Production Rates	Product/ By-Product Name	Unit	Maximum Production Capacity Permitted (Quantity)	Total Production/Power sent out for the Month (MWh)
	Energy	MWh/unit	170	151 639.50
	Fuel use per hour per unit (L)		Fuel Efficiency: Litre per MWh	
	Unit 11: 35 976.03 Unit 12: 35 375.98 Unit 13: 33 844.14 Unit 21: 36 236.55 Unit 22: 35 740.69		Unit 11:316.61 Unit 12:308.62 Unit 13:299.72 Unit 21:314.00 Unit 22:312.79	

2. Abatement Technology

Table 2: Abatement Equipment Control Technology utilisation for the month February

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month
Unit 11	Low NOx burners	100%
Unit 12	Low NOx burners	100%
Unit 13	Low NOx burners	100%
Unit 21	Low NOx burners	100%
Unit 22	Low NOx burners	100%

3. Emissions Reporting

Table 3: Total monthly emission rates and Licence limits

	Date & time	CO (mg/N m ³)	NO _x (mg/Nm ³)	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)
Hourly Licence Limit mg/Nm³			250	50	500
Unit 11	2023/02/01 02:00	1	127	0.1	0.1
	2023/02/01 03:00	1.1	127	0.1	0.7
	2023/02/01 04:00	0.9	121	0.1	1.3
	2023/02/01 06:00	1.1	122	0.1	2.5
	2023/02/01 07:00	1.2	124	0.1	1.9
	2023/02/01 08:00	0.9	127	0.1	0.3
	2023/02/07 18:00	1.5	135	0.1	0.7
	2023/02/07 19:00	1.5	135	0.1	0.7
	2023/02/07 20:00	1.4	140	0.1	0.1
	2023/02/07 21:00	1.4	143	0.1	0
	2023/02/07 22:00	1.3	143	0.1	0.1
	2023/02/07 23:00	1.4	139	0.1	0.2
	2023/02/08 13:00	1.7	147	0.1	0.8
	2023/02/08 14:00	1.4	143	0.5	1.3
	2023/02/08 15:00	1.3	144	0.5	1.3
	2023/02/08 16:00	1	145	0.1	0
	2023/02/08 17:00	0.9	146	0.2	0
	2023/02/08 18:00	1.1	145	0.1	0
	2023/02/08 19:00	1	117	0.1	0.2
	2023/02/08 20:00	0.9	129	0.1	0.1
	2023/02/08 21:00	0.9	129	0.1	0.1
	2023/02/09 17:00	1.4	133	0.1	0.6

	2023/02/09 18:00	1.3	135	0.1	0.5
	2023/02/09 19:00	1.3	132	0.1	0.2
	2023/02/09 20:00	1	124	0.1	0.2
	2023/02/09 21:00	1	123	0.1	0.2
	2023/02/09 22:00	0.7	122	0.1	0.1
	2023/02/10 07:00	1.1	131	0.1	0.8
	2023/02/10 08:00	0.9	131	0.1	0.2
	2023/02/10 09:00	1.1	133	0.1	1.7
	2023/02/10 10:00	1.3	135	0.1	3.4
	2023/02/10 11:00	1.3	138	0.1	3.9
	2023/02/10 12:00	0.6	134	0.1	1.1
	2023/02/10 13:00	0.7	136	0.1	0.9
	2023/02/10 14:00	0.7	134	0.6	0.9
	2023/02/10 15:00	0.4	134	1	0.2
	2023/02/10 16:00	0.5	135	0.1	0.1
	2023/02/10 17:00	0.5	131	0.1	0.1
	2023/02/10 18:00	0.5	129	0.1	0.1
	2023/02/10 19:00	0.5	124	0.1	0.1
	2023/02/10 20:00	0.5	121	0.1	0.1
	2023/02/10 21:00	0.3	120	0.1	0
	2023/02/11 14:00	1.5	144	0.9	0.4
	2023/02/11 15:00	1.4	144	0.7	0.3
	2023/02/11 16:00	0.7	140	0.1	0.1
	2023/02/11 17:00	0.5	135	0.1	0.1
	2023/02/11 18:00	0.8	131	0.1	0.1
	2023/02/11 19:00	0.7	131	0.1	0.1
	2023/02/11 20:00	0.4	134	0.1	0.1
	2023/02/11 21:00	0.4	130	0.1	0
	2023/02/11 22:00	0.4	126	0.1	0
	2023/02/13 15:00	1.2	128	0.5	0.2
	2023/02/13 16:00	1.3	128	0.1	0.1
	2023/02/13 17:00	1.2	130	0.1	0.1
	2023/02/13 18:00	1.3	131	0.1	0.1
	2023/02/13 19:00	1.2	129	0.1	0.1
	2023/02/13 20:00	0.9	124	0.1	0.2
	2023/02/13 21:00	0.8	99	0.1	0.2
	2023/02/15 07:00	1.7	126	0.1	0.3
	2023/02/15 08:00	1.2	125	0.1	0.2
	2023/02/15 09:00	1.1	125	0.1	0.3

	2023/02/15 10:00	1.2	127	0.1	0.6
	2023/02/15 11:00	1.1	127	0.1	0.3
	2023/02/15 12:00	0.6	107	0.1	0.1
	2023/02/15 13:00	0.4	94	0.1	0.1
	2023/02/15 14:00	0.3	102	0.1	0
	2023/02/15 15:00	0.5	108	0.1	0.1
	2023/02/15 17:00	1.3	99	0.1	1.1
	2023/02/15 18:00	1.1	95	0.1	0.5
	2023/02/15 19:00	1.1	88	0.1	0.9
	2023/02/15 20:00	0.9	102	0.1	0
	2023/02/15 21:00	0.9	92	0.1	0
	2023/02/16 17:00	1	114	0.1	0.1
	2023/02/16 18:00	0.9	113	0.1	0.1
	2023/02/16 19:00	1	112	0.1	0.2
	2023/02/17 07:00	1.3	122	0.1	0.2
	2023/02/17 08:00	1.1	109	0.1	0.8
	2023/02/17 09:00	1.3	111	0.1	2.1
	2023/02/17 10:00	1.3	108	0.1	3
	2023/02/17 11:00	1.4	113	0.1	3.4
	2023/02/17 12:00	0.5	108	0.1	0.1
	2023/02/17 13:00	0.4	106	0.1	0.1
	2023/02/17 14:00	0.6	102	0.1	0.2
	2023/02/17 15:00	0.4	111	0.1	0.1
	2023/02/17 16:00	0.9	108	0.1	0.1
	2023/02/17 17:00	0.9	104	0.1	0.1
	2023/02/17 20:00	0.8	106	0.1	0.4
	2023/02/17 21:00	0.8	105	0.1	0.6
	2023/02/17 22:00	0.9	113	0.1	0.9
	2023/02/18	1.1	112	0.1	0.6
	2023/02/18 01:00	1.3	110	0.1	1.2
	2023/02/18 02:00	1.1	121	0.1	1.4
	2023/02/18 04:00	1.1	121	0.1	1.3
	2023/02/18 05:00	1.2	121	0.1	1.2
	2023/02/18 06:00	0.7	118	0.1	1.6
	2023/02/18 08:00	1.2	131	0.1	0.3
	2023/02/18 09:00	1.1	137	0.1	0.2
	2023/02/19 07:00	1.5	133	0.1	0.1
	2023/02/19 08:00	1.6	128	0.1	1.6
	2023/02/19 09:00	1	114	0.1	4.1

	2023/02/19 10:00	1.1	110	0.1	7
	2023/02/19 11:00	1.1	137	0.1	7.9
	2023/02/19 12:00	1.5	133	0.1	1.5
	2023/02/19 13:00	1.6	128	0.2	2
	2023/02/19 19:00	1.1	137	0.1	0.2
	2023/02/19 20:00	1.5	133	0.1	0.1
	2023/02/19 21:00	1.6	128	0.1	0
	2023/02/19 22:00	1	114	0.1	0
	2023/02/19 23:00	1.1	110	0.1	0
	2023/02/20	1	118	0.1	0.2
	2023/02/20 01:00	1.1	119	0.1	0.3
	2023/02/20 02:00	1.2	127	0.1	0.3
	2023/02/20 03:00	1.2	129	0.1	0.7
	2023/02/20 04:00	0.5	124	0.1	0.8
	2023/02/20 06:00	0.6	119	0.1	0.6
	2023/02/20 07:00	0.6	119	0.1	0.2
	2023/02/20 09:00	1.4	121	0.1	1.2
	2023/02/20 10:00	1.3	121	0.1	1.7
	2023/02/20 11:00	1.3	136	0.1	2
	2023/02/20 12:00	1.4	121	0.1	0
	2023/02/20 14:00	1.9	121	0.1	0.2
	2023/02/20 18:00	0	125	0.1	0
	2023/02/20 19:00	0.3	125	0.1	0.1
	2023/02/20 20:00	1.1	124	0.1	0.7
	2023/02/20 21:00	1.2	128	0.1	1
	2023/02/20 22:00	1	127	0.1	0.9
	2023/02/20 23:00	0.9	128	0.1	0.6
	2023/02/21	0.5	132	0.1	0.1
	2023/02/21 01:00	0.4	130	0.1	0.1
	2023/02/21 02:00	0.3	130	0.1	0.2
	2023/02/21 03:00	0.6	132	0.1	0.3
	2023/02/21 05:00	0.9	113	0.1	0.1
	2023/02/21 10:00	1.2	138	0.1	0.7
	2023/02/21 11:00	1.5	141	0.1	2.1
	2023/02/21 12:00	1	134	0.1	1
	2023/02/21 13:00	1.3	119	0.2	2.4
	2023/02/21 14:00	1.4	138	0.7	2.7
	2023/02/21 15:00	1.4	135	0.7	3.9
	2023/02/21 16:00	1.1	131	0.1	0.2

	2023/02/21 17:00	0.8	133	0.1	0
	2023/02/21 18:00	0.7	123	0.1	0.1
	2023/02/21 19:00	0.7	122	0.1	0.1
	2023/02/21 21:00	0.9	122	0.1	0.1
	2023/02/21 22:00	0.8	121	0.1	0
	2023/02/21 23:00	0.9	122	0.1	0.1
	2023/02/22	0.6	128	0.1	0.1
	2023/02/22 01:00	0.6	127	0.1	0.2
	2023/02/22 02:00	0.4	127	0.1	0.1
	2023/02/22 04:00	0.6	131	0.1	0.1
	2023/02/22 05:00	0.6	122	0.1	0.1
	2023/02/22 06:00	0.5	128	0.1	0.1
	2023/02/22 07:00	0.7	127	0.1	0.2
	2023/02/22 08:00	1	106	0.1	0.5
	2023/02/22 09:00	1.3	131	0.1	1.6
	2023/02/22 10:00	1.8	126	0.1	4.2
	2023/02/22 11:00	2.1	139	0.1	5.1
	2023/02/22 18:00	1	126	0.1	0
	2023/02/22 19:00	1	120	0.1	0.1
	2023/02/22 20:00	0.8	120	0.1	0.1
	2023/02/22 21:00	1	120	0.1	0.2
	2023/02/22 22:00	1	115	0.1	0.2
	2023/02/22 23:00	0.9	118	0.1	0.3
	2023/02/23	0.8	99	0.1	0.6
	2023/02/23 01:00	1	128	0.1	0.7
	2023/02/23 02:00	1.2	127	0.1	0.9
	2023/02/23 03:00	1	121	0.1	1
	2023/02/27 07:00	1.9	117	0.1	1.4
	2023/02/27 08:00	0.9	114	0.1	1
	2023/02/27 09:00	1.1	124	0.1	2.3
	2023/02/27 16:00	1.2	137	0.1	0.1
	2023/02/27 17:00	0.7	115	0.1	0.1
	2023/02/27 18:00	0.8	112	0.1	0.1
	2023/02/27 19:00	0.8	120	0.1	0.1
	2023/02/27 20:00	0.2	110	0.1	0.2
	2023/02/27 21:00	0.2	111	0.1	0.1
	2023/02/27 22:00	0.2	109	0.1	0
	2023/02/27 23:00	0.4	119	0.1	0
	2023/02/28	1.1	122	0.1	0

	2023/02/28 01:00	1.1	116	0.1	0
	2023/02/28 07:00	0.8	107	0.1	0.1
	2023/02/28 08:00	0.9	108	0.1	0.2
	2023/02/28 09:00	1	107	0.1	0.6
	2023/02/28 10:00	1	126	0.1	0.9
	2023/02/28 11:00	1.1	126	0.1	1.2
	2023/02/28 12:00	0.8	123	0.1	1.5
	2023/02/28 13:00	0.9	124	0.1	1.7
	2023/02/28 14:00	1.4	126	0.1	3
	2023/02/28 15:00	1.3	128	0.1	3.3
	2023/02/28 17:00	1	112	0.1	0.9
	2023/02/28 18:00	0.8	111	0.2	0.3
	2023/02/28 19:00	1.2	121	0.1	0.8
	2023/02/28 21:00	1.3	115	0.1	0.5
	2023/02/28 22:00	1.6	109	0.1	0.5
	2023/02/28 23:00	1.2	113	0.2	0.3
Unit 12	2023/02/01 02:00	31.6	144	0	0.2
	2023/02/01 03:00	32.5	147	0	0.1
	2023/02/01 04:00	36.1	141	0	0.2
	2023/02/01 06:00	26.8	149	0	0.1
	2023/02/01 07:00	31.6	141	0	0
	2023/02/01 08:00	29.7	143	0	0.5
	2023/02/01 10:00	33.8	141	0	0.2
	2023/02/07 18:00	20.6	172	0	0.3
	2023/02/07 19:00	18	173	0	0.4
	2023/02/07 20:00	21.7	172	0	0.2
	2023/02/07 21:00	21.2	175	0	0.3
	2023/02/07 22:00	20.5	175	0	0.3
	2023/02/07 23:00	19.7	171	0	0.5
	2023/02/08 13:00	29	186	0	0.5
	2023/02/08 14:00	28.3	177	0	0.3
	2023/02/08 15:00	28.2	177	0	0.8
	2023/02/08 16:00	25.9	178	0	0.6
	2023/02/08 17:00	24.7	176	0	0.1
	2023/02/08 18:00	25.1	175	0	0.1
	2023/02/08 19:00	54.5	137	0	0.1
	2023/02/08 20:00	38	147	0	0.1

	2023/02/08 21:00	39.3	151	0	0.2
	2023/02/09 13:00	43.4	164	0	0.1
	2023/02/09 14:00	44.1	158	0	0.2
	2023/02/09 15:00	40.6	160	0	0
	2023/02/09 16:00	35.9	159	0	0.1
	2023/02/09 17:00	43.1	150	0	0.1
	2023/02/09 18:00	42.8	149	0	0
	2023/02/09 19:00	36	162	0	0
	2023/02/09 20:00	44.1	148	0	0.1
	2023/02/09 21:00	45.1	144	0	0.2
	2023/02/09 22:00	46.2	141	0	0.3
	2023/02/10 07:00	28.2	178	0	0.2
	2023/02/10 08:00	28.4	174	0	0.8
	2023/02/10 09:00	31.2	170	0	1.6
	2023/02/10 10:00	34.5	167	0	2.6
	2023/02/10 11:00	35	177	0	4.5
	2023/02/10 12:00	33.2	183	0	5.3
	2023/02/10 13:00	29.1	190	0	0.2
	2023/02/10 14:00	29.6	187	0	0
	2023/02/10 15:00	35.9	172	0	0
	2023/02/10 16:00	33.6	168	0	0.2
	2023/02/10 17:00	36.3	161	0	0.3
	2023/02/10 18:00	33.1	162	0	0
	2023/02/10 19:00	34.6	159	0	0
	2023/02/10 20:00	35.8	153	0	0.7
	2023/02/10 21:00	40.6	147	0	0.8
	2023/02/11 14:00	33.4	186	0	0.1
	2023/02/11 15:00	29.8	183	0	0.1
	2023/02/11 16:00	28.2	185	0	0
	2023/02/11 17:00	27.7	183	0	0
	2023/02/11 18:00	26.5	179	0	0
	2023/02/11 19:00	26.4	178	0	0
	2023/02/11 20:00	26	178	0	0.2
	2023/02/11 21:00	26.2	176	0	0.1
	2023/02/11 22:00	25.9	178	0	0.2
	2023/02/15 07:00	1.2	149	0	0.3
	2023/02/15 08:00	1.5	147	0	0.3
	2023/02/15 09:00	2.6	147	0	0
	2023/02/15 10:00	2.8	147	0	0.1

	2023/02/15 11:00	3.5	147	0	0.4
	2023/02/15 12:00	4.8	114	0	0.3
	2023/02/15 13:00	5	103	0	0
	2023/02/15 14:00	4.1	120	0	0
	2023/02/15 15:00	3.7	135	0	0
	2023/02/15 17:00	6.1	114	0	0.1
	2023/02/15 18:00	8.4	107	0	0
	2023/02/15 19:00	3.1	99	0	0
	2023/02/15 20:00	6.7	114	0	0.2
	2023/02/15 21:00	4	101	0	0.3
	2023/02/17 07:00	7.7	133	0	0.5
	2023/02/17 08:00	8	126	0	0.3
	2023/02/17 09:00	9.6	129	0	0
	2023/02/17 10:00	8.8	140	0	0.2
	2023/02/17 11:00	9.1	135	0	0.2
	2023/02/17 12:00	9.4	125	0	0.2
	2023/02/17 13:00	8.5	117	0	0.4
	2023/02/17 14:00	9.8	112	0	0.5
	2023/02/17 15:00	9.8	123	0	0.7
	2023/02/17 16:00	10.2	114	0	0.4
	2023/02/17 17:00	8.1	111	0	0.2
	2023/02/17 19:00	11.2	122	0	0.1
	2023/02/17 20:00	12.1	116	0	0.2
	2023/02/17 21:00	11.7	118	0	0.3
	2023/02/17 22:00	15	118	0	0.5
	2023/02/18	12.9	121	0	0.8
	2023/02/18 01:00	12	133	0	0.9
	2023/02/18 02:00	17.5	128	0	1.6
	2023/02/18 04:00	11.4	145	0	1.3
	2023/02/18 05:00	12.2	152	0	0
	2023/02/18 06:00	13.6	143	0	0
	2023/02/18 08:00	14.2	152	0	0
	2023/02/18 09:00	14.3	142	0	0
	2023/02/19 07:00	14	159	0	0.2
	2023/02/19 08:00	15.2	151	0	0.2
	2023/02/19 09:00	17.8	163	0	0.4
	2023/02/19 10:00	20.4	160	0	1.3
	2023/02/19 11:00	22.9	155	0	2.7
	2023/02/19 12:00	20.5	145	0	3.3

	2023/02/19 13:00	16.7	140	0	0.5
	2023/02/19 19:00	17.9	166	0	0
	2023/02/19 20:00	19.2	171	0	0
	2023/02/19 21:00	23	178	0	0
	2023/02/19 22:00	24.8	160	0	0
	2023/02/19 23:00	24.2	166	0	0
	2023/02/20	25.3	154	0	0
	2023/02/20 01:00	25	154	0	0.2
	2023/02/20 02:00	24.6	170	0	0
	2023/02/20 03:00	24.5	173	0	0
	2023/02/20 06:00	26.4	157	0	0.2
	2023/02/20 07:00	24.8	155	0	0.2
	2023/02/20 09:00	27.5	164	0	0.7
	2023/02/20 19:00	22	190	0	0
	2023/02/20 20:00	23.2	194	0	0.6
	2023/02/20 21:00	26.4	200	0	0.7
	2023/02/20 22:00	27.2	200	0	0.7
	2023/02/20 23:00	27.4	198	0	0.9
	2023/02/21	28.4	198	0	0.9
	2023/02/21 01:00	29.1	198	0	0.2
	2023/02/21 02:00	28.3	199	0	0.2
	2023/02/21 03:00	28.5	198	0	0.2
	2023/02/21 05:00	71.6	142	0	0.1
	2023/02/21 10:00	28	196	0	0.3
	2023/02/21 11:00	29.9	196	0	0.7
	2023/02/21 15:00	31.8	195	0	1
	2023/02/21 16:00	34.5	187	0	0.8
	2023/02/21 17:00	29.3	194	0	0.1
	2023/02/21 18:00	36.8	176	0	0.1
	2023/02/21 19:00	37.5	173	0	0.3
	2023/02/21 22:00	28.7	186	0	0.7
	2023/02/21 23:00	29.8	184	0	0.5
	2023/02/22	29.3	184	0	0.5
	2023/02/22 01:00	33.9	176	0	0.7
	2023/02/22 02:00	33.5	177	0	0.5
	2023/02/22 03:00	39.4	166	0	0.8
	2023/02/22 05:00	44.2	179	0	0.2
	2023/02/22 06:00	36.9	189	0	0.2
	2023/02/22 07:00	42	180	0	0.5

	2023/02/22 18:00	38.9	192	0	0.2
	2023/02/22 19:00	41.3	178	0	0.2
	2023/02/22 20:00	39.7	178	0	0.5
	2023/02/22 21:00	40.1	179	0	0.7
	2023/02/22 22:00	44.3	171	0	0.9
	2023/02/22 23:00	39.6	174	0	0.5
	2023/02/23	36.9	177	0	0.1
	2023/02/23 01:00	29.7	198	0	0
	2023/02/23 02:00	33.6	191	0	0.2
	2023/02/23 03:00	37.1	185	0	0.1
	2023/02/27 07:00	37.3	174	0	0.3
	2023/02/27 08:00	36.5	173	0	0.3
	2023/02/27 09:00	33.9	190	0	0
	2023/02/27 17:00	39.4	181	0	0
	2023/02/27 18:00	38	176	0	0
	2023/02/27 19:00	32.9	183	0	0
	2023/02/27 20:00	36.5	174	0	0.8
	2023/02/27 21:00	35.8	174	0	1
	2023/02/27 22:00	39	168	0	0.9
	2023/02/27 23:00	32.5	182	0	0.7
	2023/02/28	35.4	178	0	0.7
	2023/02/28 07:00	26.2	172	0	0.7
	2023/02/28 08:00	24.7	176	0	0.7
	2023/02/28 09:00	25.4	171	0	1
	2023/02/28 10:00	18.4	195	0	1
	2023/02/28 11:00	19.2	193	0	1.2
	2023/02/28 12:00	19.2	192	0	1.3
	2023/02/28 13:00	19.2	193	0	0.2
	2023/02/28 14:00	19.9	196	0	0.2
	2023/02/28 15:00	19.6	197	0	0.3
	2023/02/28 17:00	29.1	180	0	0.7
	2023/02/28 18:00	33.8	180	0	0.5
	2023/02/28 19:00	24.8	191	0	0.7
	2023/02/28 21:00	26.1	188	0	0.2
	2023/02/28 22:00	31.2	174	0	0.3
	2023/02/28 23:00	29.6	179	0	0.2
Unit 13	2023/02/01 06:00	2.5	120	0.1	2.1

	2023/02/01 07:00	1.4	110	0.1	0.5
	2023/02/01 08:00	1.9	112	0.1	2.4
	2023/02/01 10:00	0.9	107	0.1	3.1
	2023/02/07 08:00	0.6	96	0.1	0.1
	2023/02/07 09:00	0.8	99	0.1	0
	2023/02/07 10:00	0.8	102	0.1	0.2
	2023/02/07 17:00	0.8	117	0.1	0.4
	2023/02/07 18:00	0	111	0.1	0.1
	2023/02/07 19:00	0	110	0.1	0.1
	2023/02/07 20:00	1.3	115	0.1	0.7
	2023/02/07 21:00	2.7	121	0.1	2.1
	2023/02/07 22:00	3.8	122	0.1	5.4
	2023/02/07 23:00	2	115	0.1	3.2
	2023/02/08 14:00	3.7	124	0.3	2.3
	2023/02/08 15:00	3.6	126	0.2	4.2
	2023/02/08 16:00	0.3	119	0.1	3.2
	2023/02/08 17:00	0.2	118	0.1	0.3
	2023/02/08 18:00	0	116	0.1	0.1
	2023/02/08 19:00	0	109	0.1	0
	2023/02/08 20:00	0.4	103	0.1	0.7
	2023/02/08 21:00	0.4	104	0.1	0.4
	2023/02/09 17:00	0.2	106	0.1	1
	2023/02/09 18:00	0	94	0.1	0.4
	2023/02/09 19:00	0	98	0.1	0.4
	2023/02/09 20:00	0.9	101	0.1	0.3
	2023/02/09 21:00	1.2	102	0.1	0.2
	2023/02/09 22:00	0.9	101	0.1	0.3
	2023/02/09 23:00	0.6	98	0.1	0.1
	2023/02/10 07:00	1.9	127	0.1	1.2
	2023/02/10 08:00	1	110	0.1	0.4
	2023/02/10 09:00	1	112	0.1	0.5
	2023/02/10 10:00	1.1	112	0.1	0.5
	2023/02/10 11:00	0.9	115	0.1	0
	2023/02/10 12:00	1.5	121	0.1	1.4
	2023/02/10 13:00	2	124	0.1	2.6
	2023/02/10 14:00	0.3	119	0.4	0.4
	2023/02/10 15:00	0.8	110	0.4	0.6
	2023/02/10 16:00	0.3	111	0.1	0.3
	2023/02/10 17:00	0.3	107	0.1	0.1

	2023/02/10 18:00	0.4	109	0.1	0.1
	2023/02/10 19:00	0.4	106	0.1	0.2
	2023/02/10 20:00	0.9	100	0.1	0.9
	2023/02/10 21:00	0.7	99	0.1	1
	2023/02/11 14:00	4.6	127	0.5	6.7
	2023/02/11 15:00	1.1	116	0.4	1
	2023/02/11 16:00	1.2	118	0.1	0.1
	2023/02/11 17:00	1.5	113	0.1	0.3
	2023/02/11 18:00	1.5	113	0.1	0.4
	2023/02/11 19:00	1.2	110	0.1	0.2
	2023/02/11 20:00	1.4	103	0.1	2.4
	2023/02/11 21:00	0.7	99	0.1	1.4
	2023/02/11 22:00	0.1	98	0.1	0.5
	2023/02/12 11:00	0.2	107	0.1	0
	2023/02/14 08:00	1.5	104	0.1	2.2
	2023/02/14 09:00	1.1	98	0.1	1.9
	2023/02/14 10:00	1.2	100	0.1	0.7
	2023/02/14 11:00	2.4	108	0.1	0.5
	2023/02/14 12:00	1.7	96	0.1	1.3
	2023/02/14 13:00	2	102	0.1	2.3
	2023/02/14 14:00	0.7	103	0.4	0.4
	2023/02/14 15:00	1.2	101	0.4	0.8
	2023/02/14 16:00	1.1	101	0.1	0.4
	2023/02/14 17:00	1.2	98	0.1	0.5
	2023/02/14 18:00	1.4	93	0.1	0.9
	2023/02/14 19:00	1.2	101	0.1	1.1
	2023/02/14 20:00	0.9	98	0.1	0.4
	2023/02/14 21:00	1	98	0.1	0.4
	2023/02/14 22:00	1.2	99	0.1	0.3
	2023/02/15 07:00	0.1	103	0.1	0.4
	2023/02/15 08:00	1.1	105	0.1	0.3
	2023/02/15 09:00	1.5	107	0.1	0.3
	2023/02/15 10:00	1.9	107	0.1	0.4
	2023/02/15 11:00	1.9	109	0.1	1.1
	2023/02/15 12:00	1	90	0.1	0.2
	2023/02/15 13:00	1	91	0.1	0.2
	2023/02/15 14:00	1.3	97	0.1	1
	2023/02/15 15:00	1.6	102	0.1	1.2
	2023/02/15 16:00	1.3	101	0.1	0.6

	2023/02/15 18:00	1.1	94	0.1	2.4
	2023/02/15 19:00	0.1	96	0.1	1.5
	2023/02/15 20:00	0.5	94	0.1	1
	2023/02/15 21:00	0.7	87	0.1	0
	2023/02/17 08:00	0.4	95	0.1	0.3
	2023/02/17 09:00	0	94	0.1	0
	2023/02/17 10:00	0.6	92	0.1	0.5
	2023/02/17 11:00	0.9	100	0.1	0.7
	2023/02/17 12:00	0.6	95	0.1	0.4
	2023/02/17 13:00	0.9	95	0.1	0.7
	2023/02/17 14:00	1.2	92	0.1	0.6
	2023/02/17 15:00	1.7	97	0.1	1.2
	2023/02/17 16:00	0.9	93	0.1	0.6
	2023/02/17 17:00	0.9	92	0.1	0.4
	2023/02/17 19:00	0.3	99	0.1	1.1
	2023/02/17 20:00	1.5	95	0.1	1
	2023/02/17 21:00	2.1	97	0.1	2.5
	2023/02/17 22:00	2.3	97	0.1	2.4
	2023/02/18 01:00	1.6	103	0.1	1.2
	2023/02/18 02:00	2	103	0.1	3
	2023/02/18 04:00	0.7	108	0.1	1.2
	2023/02/18 05:00	0.1	105	0.1	0.9
	2023/02/18 06:00	0	98	0.1	0.5
	2023/02/18 08:00	1.6	113	0.1	3
	2023/02/18 09:00	2.9	112	0.1	0.5
	2023/02/18 10:00	3	111	0.1	0.5
	2023/02/18 12:00	1.9	113	0.1	0.8
	2023/02/18 13:00	2.3	108	0.1	1.2
	2023/02/18 14:00	2.2	107	0.1	1.7
	2023/02/18 16:00	0.5	109	0.1	1.2
	2023/02/18 17:00	0	107	0.1	0
	2023/02/18 18:00	0	104	0.1	0
	2023/02/18 19:00	0.4	106	0.1	0
	2023/02/19 07:00	1.1	114	0.1	1
	2023/02/19 08:00	0.9	109	0.1	0.4
	2023/02/19 09:00	1.4	114	0.1	0
	2023/02/19 10:00	2.5	115	0.1	0
	2023/02/19 11:00	3	114	0.1	0
	2023/02/19 12:00	1.8	106	0.1	0.5

	2023/02/19 18:00	0.2	105	0.1	1
	2023/02/19 19:00	0	105	0.1	0.5
	2023/02/19 20:00	1.3	116	0.1	1.8
	2023/02/19 21:00	0.2	112	0.1	0.2
	2023/02/19 22:00	0.5	103	0.1	0.1
	2023/02/19 23:00	0.2	106	0.1	0
	2023/02/20	0.9	104	0.1	0.2
	2023/02/20 01:00	1.3	105	0.1	2.5
	2023/02/20 02:00	2.1	115	0.1	1.9
	2023/02/20 03:00	1	115	0.1	0.4
	2023/02/20 05:00	2	120	0.1	0.8
	2023/02/20 06:00	2.2	113	0.1	1
	2023/02/20 07:00	1.9	112	0.1	3.1
	2023/02/20 10:00	2.1	122	0.1	1.5
	2023/02/20 11:00	1.5	120	0.1	0.6
	2023/02/20 12:00	1.2	123	0.1	0.1
	2023/02/20 13:00	1.3	112	0.1	3.7
	2023/02/20 14:00	2.5	105	0.1	0
	2023/02/20 18:00	0	106	0.1	0
	2023/02/20 19:00	0	103	0.1	0.4
	2023/02/20 20:00	0.3	107	0.1	3
	2023/02/20 21:00	1.1	111	0.1	1.7
	2023/02/20 22:00	0.4	107	0.1	1.1
	2023/02/20 23:00	0.1	109	0.1	1.2
	2023/02/21	1.4	118	0.1	1.2
	2023/02/21 01:00	1.3	115	0.1	1.7
	2023/02/21 02:00	1.6	116	0.1	1.4
	2023/02/21 03:00	1.3	118	0.1	2
	2023/02/21 10:00	1	120	0.1	1.8
	2023/02/21 11:00	0.8	121	0.1	0.4
	2023/02/21 12:00	2	124	0.1	0.5
	2023/02/21 13:00	2.5	115	0.3	0
	2023/02/21 14:00	1.8	125	0.4	0
	2023/02/21 15:00	2.5	123	0.1	0.4
	2023/02/21 16:00	1.3	122	0.1	4.3
	2023/02/21 17:00	2.3	124	0.1	1.1
	2023/02/21 18:00	0.2	109	0.1	0.5
	2023/02/21 19:00	0.1	108	0.1	3.3
	2023/02/21 20:00	1.7	109	0.1	1.8

	2023/02/21 22:00	0	105	0.1	1.1
	2023/02/21 23:00	0	105	0.1	1.3
	2023/02/22	0.6	115	0.1	0.4
	2023/02/22 01:00	0	106	0.1	0
	2023/02/22 02:00	0	108	0.1	0
	2023/02/22 03:00	0	104	0.1	0.7
	2023/02/22 05:00	0.8	114	0.1	0.8
	2023/02/22 06:00	0.6	117	0.1	0.7
	2023/02/22 07:00	0.3	115	0.1	0
	2023/02/22 08:00	1.2	106	0.1	0.4
	2023/02/22 09:00	1.5	128	0.1	0
	2023/02/22 10:00	1.6	118	0.1	0
	2023/02/22 11:00	1.2	133	0.1	3.7
	2023/02/22 12:00	2.5	108	0.1	0.1
	2023/02/22 18:00	0.8	112	0.1	0.4
	2023/02/22 19:00	1.3	105	0.1	1.8
	2023/02/22 20:00	0.8	103	0.1	2.3
	2023/02/22 21:00	1.1	105	0.1	5.4
	2023/02/22 22:00	1.8	102	0.1	3.5
	2023/02/22 23:00	0.2	99	0.1	0.7
	2023/02/23	0.3	93	0.1	0.5
	2023/02/23 01:00	0.6	110	0.1	0.6
	2023/02/23 02:00	1	110	0.1	0.5
	2023/02/23 03:00	0.8	105	0.1	1
	2023/02/23 04:00	1.1	104	0.1	1.7
	2023/02/23 06:00	1.6	104	0.1	1.3
	2023/02/23 07:00	1.1	109	0.1	0.8
	2023/02/23 08:00	1.5	100	0.1	0.5
	2023/02/23 09:00	1.8	102	0.1	0.4
	2023/02/23 17:00	0.7	103	0.1	0.1
	2023/02/23 18:00	0.2	104	0.1	0
	2023/02/23 19:00	0.2	99	0.1	1.3
	2023/02/23 20:00	2.1	107	0.1	1.7
	2023/02/23 21:00	1.4	92	0.1	1.6
	2023/02/23 22:00	0.2	89	0.1	0.2
	2023/02/23 23:00	0	94	0.1	0.2
	2023/02/24	1.1	105	0.1	0.1
	2023/02/24 01:00	1.7	104	0.1	0.1
	2023/02/24 02:00	1.6	99	0.1	0.1

	2023/02/24 04:00	1.4	103	0.1	0.6
	2023/02/24 05:00	1.5	99	0.1	0.4
	2023/02/24 06:00	1.9	99	0.1	0.5
	2023/02/24 07:00	2.1	100	0.1	0.6
	2023/02/24 08:00	1.4	107	0.1	0.7
	2023/02/24 09:00	1.9	105	0.1	2.1
	2023/02/27 07:00	0.1	98	0.1	0.8
	2023/02/27 08:00	1.4	97	0.1	0.8
	2023/02/27 09:00	2.3	106	0.1	0.9
	2023/02/27 16:00	1.3	114	0.1	2.3
	2023/02/27 17:00	0	94	0.1	0
	2023/02/27 18:00	0	95	0.1	0
	2023/02/27 19:00	0	97	0.1	0
	2023/02/27 20:00	1.2	98	0.1	0.2
	2023/02/27 21:00	1.2	101	0.1	0.2
	2023/02/27 22:00	0.9	97	0.1	0.4
	2023/02/27 23:00	1.1	104	0.1	1.1
	2023/02/28	0.2	102	0.1	0.6
	2023/02/28 07:00	0.9	95	0.1	1
	2023/02/28 08:00	1.2	100	0.1	0.5
	2023/02/28 09:00	1.3	101	0.1	1.7
	2023/02/28 10:00	0.4	112	0.1	1.5
	2023/02/28 11:00	0.9	114	0.1	0.7
	2023/02/28 12:00	0.6	105	0.1	0.2
	2023/02/28 13:00	0.6	106	0.1	0.4
	2023/02/28 14:00	0.2	107	0.1	0
	2023/02/28 15:00	1.1	112	0.1	0
	2023/02/28 17:00	2.2	100	0.1	2.1
	2023/02/28 18:00	1.4	100	0.1	2.1
	2023/02/28 19:00	1.6	109	0.1	0.8
	2023/02/28 20:00	0.4	99	0.1	0.3
	2023/02/28 22:00	0	94	0.1	0
	2023/02/28 23:00	0	99	0.1	0.1
Unit 21	2023/02/01 02:00	1.9	180	0	0.6
	2023/02/01 03:00	2	179	0	0.4
	2023/02/01 04:00	1.9	177	0	0.5
	2023/02/01 06:00	1.8	178	0	0.5

	2023/02/01 07:00	1.2	173	0	0.5
	2023/02/01 08:00	1.7	184	0	0.5
	2023/02/01 09:00	2.2	194	0	0.4
	2023/02/06 15:00	2	128	0	1.9
	2023/02/06 16:00	3	125	0	1.4
	2023/02/06 17:00	3.4	120	0	1.8
	2023/02/06 18:00	3	128	0	2.1
	2023/02/06 19:00	2.1	119	0	2.4
	2023/02/06 20:00	2.1	116	0	1.4
	2023/02/06 21:00	2.6	118	0	0
	2023/02/07 07:00	1.3	132	0	0.6
	2023/02/07 08:00	4.6	104	0	0.5
	2023/02/07 09:00	4	113	0	0.2
	2023/02/07 10:00	3.8	115	0	0.5
	2023/02/08 13:00	2.2	141	0	0.4
	2023/02/08 14:00	3.4	136	0	0.4
	2023/02/08 15:00	4	136	0	0.5
	2023/02/08 16:00	2.7	137	0	0.4
	2023/02/08 17:00	2.3	137	0	0.5
	2023/02/08 18:00	1.8	137	0	0.6
	2023/02/08 19:00	1.5	127	0	0.5
	2023/02/08 20:00	1.9	112	0	0.4
	2023/02/08 21:00	2.1	115	0	0.3
	2023/02/09 13:00	3.3	124	0	1
	2023/02/09 14:00	2.8	117	0	0.8
	2023/02/09 15:00	2.7	119	0	0.7
	2023/02/09 16:00	2.5	117	0	0.2
	2023/02/09 17:00	2.2	111	0	0.3
	2023/02/09 18:00	2.2	111	0	0.2
	2023/02/09 19:00	2.6	120	0	0.3
	2023/02/09 20:00	2.2	107	0	0.6
	2023/02/09 21:00	2.2	107	0	0.9
	2023/02/09 22:00	2.2	105	0	0.8
	2023/02/09 23:00	1.9	107	0	0.7
	2023/02/10 07:00	2.3	135	0	0.6
	2023/02/10 08:00	2.5	128	0	0.7
	2023/02/10 09:00	3.6	130	0	0.4
	2023/02/10 10:00	2.8	129	0	0.6
	2023/02/10 11:00	3.2	134	0	0.3

	2023/02/10 12:00	1.6	134	0	0.7
	2023/02/10 13:00	0.7	134	0	0
	2023/02/10 14:00	2.7	135	0	0.3
	2023/02/10 15:00	1.7	121	0	0.1
	2023/02/10 16:00	2.7	122	0	0.7
	2023/02/10 17:00	2.9	118	0	0.4
	2023/02/10 18:00	2.9	121	0	0.6
	2023/02/10 19:00	2	119	0	0.6
	2023/02/10 20:00	2	113	0	0.3
	2023/02/10 21:00	2.6	116	0	0.4
	2023/02/11 14:00	4	142	0	0.4
	2023/02/11 15:00	5.3	137	0	0.8
	2023/02/11 16:00	1.3	126	0	1
	2023/02/11 17:00	1.3	119	0	0.2
	2023/02/11 18:00	1	120	0	0
	2023/02/11 19:00	1.9	117	0	0.3
	2023/02/11 20:00	2.6	117	0	0.6
	2023/02/11 21:00	2.3	117	0	0.3
	2023/02/11 22:00	2.4	117	0	0.4
	2023/02/13 15:00	3	124	0	2.8
	2023/02/13 16:00	2.4	118	0	0.9
	2023/02/13 17:00	1.3	111	0	0.5
	2023/02/13 18:00	1.3	116	0	0.4
	2023/02/13 19:00	0.9	115	0	0.6
	2023/02/13 20:00	2.1	114	0	0.6
	2023/02/13 21:00	2.5	100	0	1.4
	2023/02/14 07:00	2.1	124	0	0.5
	2023/02/14 08:00	3	123	0	0.5
	2023/02/14 09:00	3.8	117	0	0.4
	2023/02/14 10:00	3.7	117	0	0.2
	2023/02/14 11:00	2.9	126	0	0.6
	2023/02/14 12:00	2.1	112	0	0.5
	2023/02/14 13:00	2.2	120	0	0.2
	2023/02/14 14:00	2.8	127	0	0.3
	2023/02/14 15:00	1.8	121	0	0.6
	2023/02/14 16:00	2.7	118	0	0.3
	2023/02/14 17:00	2.6	117	0	0.4
	2023/02/14 18:00	3	103	0	0.5
	2023/02/14 19:00	2.5	120	0	0.4

	2023/02/14 20:00	2.2	114	0	0.4
	2023/02/14 21:00	3	116	0	0.6
	2023/02/14 22:00	2.4	118	0	0.8
	2023/02/15 07:00	1.7	133	0	1
	2023/02/15 08:00	2.4	134	0	0.8
	2023/02/15 09:00	2.1	134	0	0.5
	2023/02/15 10:00	2	134	0	0.2
	2023/02/15 11:00	2.3	134	0	0.5
	2023/02/15 12:00	1.6	113	0	0.5
	2023/02/15 13:00	1.7	103	0	0.2
	2023/02/15 14:00	1.4	115	0	0.3
	2023/02/15 15:00	1.5	125	0	0.3
	2023/02/15 16:00	1.7	115	0	0
	2023/02/15 18:00	2	109	0	0.2
	2023/02/15 19:00	2.3	116	0	0.1
	2023/02/15 20:00	1.5	118	0	0.5
	2023/02/16 17:00	2.4	126	0	0.5
	2023/02/16 18:00	3.2	129	0	0.7
	2023/02/16 19:00	2.5	126	0	0.6
	2023/02/17 07:00	0.1	128	0	1.3
	2023/02/17 08:00	2	122	0	0.6
	2023/02/17 09:00	3	124	0	0
	2023/02/17 10:00	4.3	127	0	0.1
	2023/02/17 11:00	5.9	129	0	0
	2023/02/17 12:00	2.5	120	0	0
	2023/02/17 13:00	1	118	0	0
	2023/02/17 14:00	0.3	113	0	0
	2023/02/17 15:00	0.1	116	0	0
	2023/02/17 16:00	2.5	111	0	1.7
	2023/02/17 17:00	3.4	106	0	0
	2023/02/17 19:00	2.9	122	0	0.3
	2023/02/17 20:00	1.7	119	0	0.1
	2023/02/17 21:00	0.9	120	0	0
	2023/02/17 22:00	1.3	121	0	0.3
	2023/02/17 23:00	1.9	121	0	0
	2023/02/18 01:00	2.6	130	0	0.5
	2023/02/18 02:00	3	129	0	0.1
	2023/02/18 03:00	4.3	132	0	0.7
	2023/02/18 05:00	2	144	0	0.5

	2023/02/18 06:00	2	135	0	0.5
	2023/02/18 08:00	1.5	137	0	0.7
	2023/02/18 09:00	1.2	134	0	0.6
	2023/02/18 10:00	1.7	128	0	0.5
	2023/02/18 12:00	1.8	148	0	0.3
	2023/02/18 13:00	1.5	135	0	0.2
	2023/02/18 14:00	1.5	130	0	0.2
	2023/02/18 16:00	1.9	129	0	0
	2023/02/18 17:00	2.5	135	0	0.1
	2023/02/18 18:00	2.3	130	0	0.3
	2023/02/18 19:00	1.9	132	0	0.2
	2023/02/19 06:00	0.7	151	0	0.9
	2023/02/19 07:00	1.3	149	0	1
	2023/02/19 08:00	2.6	143	0	0.5
	2023/02/19 09:00	5.5	152	0	0.4
	2023/02/19 10:00	7.5	151	0	0.7
	2023/02/19 11:00	6.3	145	0	0.8
	2023/02/19 12:00	2.8	136	0	0.2
	2023/02/19 18:00	2.3	145	0	0.7
	2023/02/19 19:00	2.8	150	0	0.8
	2023/02/19 20:00	2.4	149	0	0.6
	2023/02/19 21:00	2.3	147	0	0.5
	2023/02/19 22:00	2.6	136	0	0.7
	2023/02/19 23:00	2.2	137	0	0.5
	2023/02/20	2	126	0	0.5
	2023/02/20 01:00	1.4	129	0	0.5
	2023/02/20 02:00	1.1	138	0	0.7
	2023/02/20 04:00	2.4	145	0	0.5
	2023/02/20 05:00	2.4	146	0	0.6
	2023/02/20 06:00	1.9	141	0	0.5
	2023/02/20 07:00	2.2	139	0	0.5
	2023/02/20 08:00	1.6	142	0	0.9
	2023/02/20 10:00	2.1	132	0	0.6
	2023/02/20 11:00	1.9	155	0	0.8
	2023/02/20 12:00	2.5	154	0	0.8
	2023/02/20 13:00	2.2	144	0	1.1
	2023/02/20 14:00	2.1	129	0	0.8
	2023/02/20 18:00	0.4	142	0	2.3
	2023/02/20 19:00	0.1	141	0	2

	2023/02/20 20:00	3	143	0	1.1
	2023/02/20 21:00	3.9	150	0	0.8
	2023/02/20 22:00	4.2	146	0	1
	2023/02/20 23:00	3.7	151	0	1.1
	2023/02/21	1.6	154	0	0.6
	2023/02/21 01:00	0.9	150	0	0.4
	2023/02/21 02:00	0.3	148	0	0.4
	2023/02/21 03:00	0.2	152	0	0.6
	2023/02/21 04:00	2.1	143	0	0.5
	2023/02/21 06:00	2.4	152	0	0.5
	2023/02/21 07:00	2.2	149	0	0.5
	2023/02/21 08:00	2.4	156	0	0.8
	2023/02/21 09:00	3	157	0	0.5
	2023/02/21 10:00	4.9	159	0	0.4
	2023/02/21 11:00	5.9	168	0	0.6
	2023/02/21 12:00	3	162	0	0.6
	2023/02/21 13:00	3.4	165	0	0.8
	2023/02/21 14:00	3.4	166	0	0.7
	2023/02/21 15:00	5.3	152	0	1.2
	2023/02/21 16:00	1.5	162	0	0.8
	2023/02/21 17:00	0.2	161	0	0.3
	2023/02/21 18:00	0.4	150	0	0.4
	2023/02/21 19:00	0.5	147	0	0.3
	2023/02/21 20:00	2.1	140	0	1.3
	2023/02/21 22:00	0.7	156	0	1
	2023/02/21 23:00	1.6	156	0	0.8
	2023/02/22	2.5	161	0	0.7
	2023/02/22 01:00	2.6	156	0	0.5
	2023/02/22 02:00	2.5	158	0	0.5
	2023/02/22 03:00	1.9	152	0	0.7
	2023/02/22 05:00	3.1	147	0	0.7
	2023/02/22 06:00	2.5	162	0	0.9
	2023/02/22 07:00	2.4	156	0	1
	2023/02/22 08:00	5.2	123	0	0.9
	2023/02/22 09:00	3.9	167	0	1.1
	2023/02/22 10:00	4.9	156	0	1
	2023/02/22 11:00	4	173	0	0.6
	2023/02/22 18:00	2.6	163	0	0.9
	2023/02/22 19:00	4.1	147	0	1

	2023/02/22 20:00	2.4	151	0	0.9
	2023/02/22 21:00	2.5	150	0	0.2
	2023/02/22 22:00	3.3	141	0	0.3
	2023/02/22 23:00	4	144	0	0.3
	2023/02/23	2	138	0	0.1
	2023/02/23 01:00	2.2	150	0	0.2
	2023/02/23 02:00	1	151	0	0
	2023/02/23 03:00	0.9	149	0	0.3
	2023/02/23 04:00	2.5	150	0	0.4
	2023/02/23 06:00	5.6	148	0	0.6
	2023/02/23 07:00	3.5	163	0	0.7
	2023/02/23 08:00	2.2	145	0	0.7
	2023/02/23 09:00	2.6	152	0	0.9
	2023/02/23 17:00	3.2	161	0	1.8
	2023/02/23 18:00	3.1	161	0	1.7
	2023/02/23 19:00	3.7	156	0	1.6
	2023/02/23 20:00	2.9	160	0	1.3
	2023/02/23 21:00	3.7	148	0	0.6
	2023/02/23 22:00	3.1	144	0	0.5
	2023/02/23 23:00	3.1	153	0	0.6
	2023/02/24	2.1	157	0	1.2
	2023/02/24 01:00	2.4	154	0	1.1
	2023/02/24 02:00	2.8	144	0	1.1
	2023/02/24 04:00	2.5	163	0	0.9
	2023/02/24 05:00	2.2	151	0	0.8
	2023/02/24 06:00	1.8	148	0	0.6
	2023/02/24 07:00	1.7	150	0	0.7
	2023/02/24 08:00	2.5	162	0	0.5
	2023/02/24 09:00	2.7	158	0	0.5
	2023/02/27 07:00	1.6	156	0	0.9
	2023/02/27 08:00	3	152	0	0.5
	2023/02/27 09:00	5.1	167	0	0.4
	2023/02/27 16:00	2.4	180	0	0.7
	2023/02/27 17:00	3.4	155	0	0.6
	2023/02/27 18:00	3.1	155	0	0.5
	2023/02/27 19:00	2.6	166	0	0.5
	2023/02/27 20:00	2.7	149	0	1
	2023/02/27 21:00	2.7	158	0	1.3
	2023/02/27 22:00	2.4	149	0	1.2

	2023/02/27 23:00	2.2	161	0	0.9
	2023/02/28	2.2	158	0	0.8
	2023/02/28 07:00	3.1	150	0	0.3
	2023/02/28 08:00	2.7	147	0	0.8
	2023/02/28 09:00	2.6	148	0	1.1
	2023/02/28 10:00	2.5	170	0	1.1
	2023/02/28 11:00	2.6	168	0	1
	2023/02/28 12:00	2.2	169	0	0.7
	2023/02/28 13:00	2.1	169	0	0.5
	2023/02/28 14:00	2	169	0	0.7
	2023/02/28 15:00	2.1	170	0	0.6
	2023/02/28 16:00	2	172	0	0.5
	2023/02/28 18:00	1.8	160	0	0.5
	2023/02/28 19:00	1.2	169	0	0.3
	2023/02/28 20:00	2.2	160	0	0.4
	2023/02/28 22:00	1.2	158	0	0.4
	2023/02/28 23:00	1.1	155	0	0.6
Unit 22	2023/02/01 06:00	1.6	168	0	0.7
	2023/02/01 07:00	2.8	151	0	0.7
	2023/02/01 08:00	3.3	155	0	0.9
	2023/02/01 09:00	2	165	0	1.1
	2023/02/07 07:00	1.9	166	0	1.3
	2023/02/07 08:00	4	153	0	0.9
	2023/02/07 09:00	4.8	158	0	1.3
	2023/02/07 10:00	5.4	152	0	1.2
	2023/02/08 13:00	3.2	188	0	3.9
	2023/02/08 14:00	2.3	183	0	2.9
	2023/02/08 15:00	2.1	182	0	2.8
	2023/02/08 16:00	1.4	182	0	1.1
	2023/02/08 17:00	1.8	184	0	1.6
	2023/02/08 18:00	1.8	183	0	1.8
	2023/02/08 19:00	2	170	0	1.8
	2023/02/08 20:00	1.8	154	0	1.4
	2023/02/08 21:00	1.2	155	0	0.4
	2023/02/10 07:00	1.5	167	0	1.1
	2023/02/10 08:00	1.5	172	0	0.4
	2023/02/10 09:00	2.4	179	0	1.3

	2023/02/10 10:00	2.7	179	0	2.2
	2023/02/10 11:00	2.9	185	0	2.4
	2023/02/10 12:00	1.9	187	0	0.6
	2023/02/10 13:00	2	188	0	0.7
	2023/02/10 14:00	2.1	184	0	0.6
	2023/02/10 15:00	2.2	165	0	0.6
	2023/02/10 16:00	1.7	164	0	0.6
	2023/02/10 17:00	1.4	158	0	0.5
	2023/02/10 18:00	1.4	160	0	0.5
	2023/02/10 19:00	1.3	157	0	0.2
	2023/02/10 20:00	2	155	0	0.3
	2023/02/10 21:00	2.2	157	0	0.6
	2023/02/11 14:00	2.1	183	0	1.5
	2023/02/11 15:00	1.4	174	0	1
	2023/02/11 16:00	1.4	170	0	0.4
	2023/02/11 17:00	1.1	159	0	0.4
	2023/02/11 18:00	1	164	0	0.2
	2023/02/11 19:00	0.9	155	0	0.1
	2023/02/11 20:00	1.8	152	0	0.3
	2023/02/11 21:00	1.8	151	0	0.5
	2023/02/11 22:00	1.7	152	0	0.3
	2023/02/12 11:00	2.5	161	0	2.7
	2023/02/15 07:00	1.8	166	0	0.5
	2023/02/15 08:00	1.8	167	0	0.4
	2023/02/15 09:00	2.4	165	0	0.6
	2023/02/15 10:00	1.8	164	0	0.5
	2023/02/15 11:00	1.8	164	0	0.7
	2023/02/15 12:00	2.1	140	0	0.3
	2023/02/15 13:00	5	129	0	0.4
	2023/02/15 14:00	4.3	142	0	0.7
	2023/02/15 15:00	2.3	155	0	0.5
	2023/02/15 16:00	1.9	146	0	0.6
	2023/02/15 18:00	2.8	134	0	0.4
	2023/02/15 19:00	3.6	143	0	0.7
	2023/02/15 20:00	2	154	0	0.8
	2023/02/15 21:00	1.6	152	0	0.4
	2023/02/16 17:00	2	154	0	0.7
	2023/02/16 18:00	1.1	156	0	0.3
	2023/02/16 19:00	1	152	0	0.2

	2023/02/17 07:00	2.3	161	0	1.9
	2023/02/17 08:00	1.7	152	0	0.7
	2023/02/17 09:00	1.7	155	0	0.2
	2023/02/17 10:00	1.9	147	0	0.2
	2023/02/17 11:00	1.7	157	0	0.3
	2023/02/17 12:00	2.1	148	0	0.9
	2023/02/17 13:00	2.2	147	0	1.1
	2023/02/17 14:00	2.4	143	0	1.5
	2023/02/17 15:00	2.1	149	0	1.4
	2023/02/17 16:00	2.9	140	0	0.6
	2023/02/17 19:00	1.7	158	0	0.3
	2023/02/17 20:00	2.1	146	0	0.7
	2023/02/17 21:00	2.2	146	0	0.8
	2023/02/17 22:00	2.4	144	0	0.8
	2023/02/17 23:00	2.7	147	0	1
	2023/02/18 01:00	2.3	167	0	1.4
	2023/02/18 02:00	3.1	161	0	1.7
	2023/02/18 03:00	2.5	170	0	2
	2023/02/18 05:00	1.9	180	0	0.4
	2023/02/18 06:00	2.7	164	0	0.6
	2023/02/18 07:00	3.4	162	0	0.7
	2023/02/18 09:00	2.5	162	0	1.1
	2023/02/19 07:00	1	179	0	0.5
	2023/02/19 08:00	1.9	173	0	0.6
	2023/02/19 09:00	2.9	180	0	1.4
	2023/02/19 10:00	3.5	173	0	2.3
	2023/02/19 11:00	3.8	171	0	2.7
	2023/02/19 12:00	2.6	154	0	2.1
	2023/02/19 19:00	1.7	171	0	0.7
	2023/02/19 20:00	1.9	181	0	0.5
	2023/02/19 21:00	1.8	178	0	0.5
	2023/02/19 22:00	2.1	161	0	0.5
	2023/02/19 23:00	2.4	168	0	1.2
	2023/02/20	4.5	157	0	0.9
	2023/02/20 01:00	4.5	158	0	0.6
	2023/02/20 02:00	3	171	0	0.9
	2023/02/20 03:00	2.8	174	0	0.8
	2023/02/20 05:00	2.3	175	0	1.3
	2023/02/20 06:00	2.7	168	0	1.2

	2023/02/20 07:00	1.6	164	0	0.5
	2023/02/20 08:00	1.6	175	0	0.3
	2023/02/20 10:00	3.3	174	0	0.7
	2023/02/20 11:00	3.5	183	0	1.6
	2023/02/20 12:00	5.7	147	0	1
	2023/02/20 13:00	2.5	171	0	0.9
	2023/02/20 14:00	14	153	0	1
	2023/02/20 18:00	3	169	0	1
	2023/02/20 19:00	1.3	166	0	0.3
	2023/02/20 20:00	2.9	168	0	0.9
	2023/02/20 21:00	2.7	174	0	1
	2023/02/20 22:00	4.5	173	0	1.1
	2023/02/20 23:00	2.9	175	0	1.3
	2023/02/21	3.1	181	0	0.8
	2023/02/21 01:00	4.4	176	0	0.8
	2023/02/21 02:00	4	175	0	1.1
	2023/02/21 03:00	2.4	175	0	1.1
	2023/02/21 04:00	4	170	0	1.1
	2023/02/21 06:00	3.4	177	0	1.5
	2023/02/21 07:00	3.3	171	0	1.5
	2023/02/21 08:00	3.3	181	0	0.9
	2023/02/21 09:00	2.9	178	0	0.9
	2023/02/21 10:00	2.8	177	0	0.9
	2023/02/21 11:00	2.3	179	0	1.4
	2023/02/21 12:00	2.2	185	0	1.1
	2023/02/21 13:00	2.4	198	0	1.3
	2023/02/21 14:00	2.5	196	0	1.3
	2023/02/21 15:00	2.2	177	0	1
	2023/02/21 16:00	1.7	180	0	0.4
	2023/02/21 17:00	2	177	0	0.2
	2023/02/21 18:00	3.8	164	0	0.6
	2023/02/21 19:00	4.9	163	0	0.2
	2023/02/21 20:00	5.8	157	0	1.2
	2023/02/21 23:00	2.1	189	0	0.9
	2023/02/22	3.4	184	0	0.6
	2023/02/22 01:00	4.2	173	0	0.7
	2023/02/22 02:00	4.7	178	0	0.9
	2023/02/22 03:00	5.2	170	0	1
	2023/02/22 04:00	4.9	175	0	0.5

	2023/02/22 06:00	5.9	170	0	0.5
	2023/02/22 07:00	6.2	170	0	0.6
	2023/02/22 08:00	21.5	135	0	0.9
	2023/02/22 09:00	6.7	166	0	2.5
	2023/02/22 10:00	5.3	174	0	4.4
	2023/02/22 11:00	3.6	190	0	4
	2023/02/22 12:00	11	147	0	1.1
	2023/02/22 18:00	0.5	168	0	0.1
	2023/02/22 19:00	2.5	156	0	0
	2023/02/22 20:00	3.3	163	0	0.9
	2023/02/22 21:00	3.9	167	0	1.1
	2023/02/22 22:00	10	157	0	1.1
	2023/02/22 23:00	12.4	157	0	1
	2023/02/23	13.2	162	0	1.3
	2023/02/23 01:00	13	178	0	1.4
	2023/02/23 02:00	2.9	185	0	1.4
	2023/02/23 03:00	5.2	176	0	1.5
	2023/02/27 07:00	4.7	162	0	2.3
	2023/02/27 08:00	6.8	153	0	1.1
	2023/02/27 09:00	3	181	0	1.1
	2023/02/27 17:00	2.2	153	0	2.3
	2023/02/27 18:00	2.8	151	0	1.7
	2023/02/27 19:00	2	160	0	1.7
	2023/02/27 20:00	4.7	152	0	1.8
	2023/02/27 21:00	3.6	157	0	2.1
	2023/02/27 22:00	2.3	154	0	1.4
	2023/02/27 23:00	1.5	163	0	0.6
	2023/02/28	3	158	0	0.6
	2023/02/28 07:00	2.1	153	0	0.6
	2023/02/28 08:00	2.5	156	0	0.8
	2023/02/28 09:00	2.9	155	0	0.8
	2023/02/28 10:00	1.8	176	0	0.8
	2023/02/28 11:00	2	174	0	1.1
	2023/02/28 12:00	2.1	177	0	1.3
	2023/02/28 13:00	2.1	176	0	0.8
	2023/02/28 14:00	2.4	176	0	1.6
	2023/02/28 15:00	3.4	180	0	3
	2023/02/28 16:00	2.4	176	0	1.5
	2023/02/28 18:00	3.2	157	0	1.5

	2023/02/28 19:00	2.6	172	0	1.5
	2023/02/28 20:00	2.2	153	0	0.5
	2023/02/28 22:00	2.2	159	0	0.9
	2023/02/28 23:00	2	149	0	0.5
Total Emission mass (tons)					
		10.604	138.732	0.001	0.623

Table 4: Each unit and respective days operating under normal operation

Unit	Hours operating under normal operation	Hours of start-up and shut-down	Total
11	194	60	254
12	174	59	233
13	229	62	291
21	256	65	321
22	181	48	229
Total	1034	294	1328

Table 5: Monitoring Equipment-Continuous Emission Monitoring System (CEMS) availability

Associated Unit/Stack	Technology Type	Actual Utilisation (%) for the month
Unit 11	CEMS	100%
Unit 12	CEMS	100%
Unit 13	CEMS	100%
Unit 21	CEMS	100%
Unit 22	CEMS	100%

Note: Continuous Emission Monitoring System (CEMS) is always online unless a fault is reported. The system auto calibrates every four (4) hours and raises an alarm if auto calibration is out of spec. Onsite technicians calibrate the system with calibration gas annually.

Table 6: Average Point Source Emissions released during start-up, maintenance and shut-down for the month of February 2023 in mg/Nm³

Unit	NO _x	SO ₂
11	116.95	3.57
12	171.75	3.37

13	118.79	2.96
21	134.98	2.06
22	144.81	2.49

4. Comments on the performance and availability of each unit

- All 5 units were available to generate power for the month of February 2023
- **Leak Detection and Repair programme-** No leaks were reported during February 2023.

5. Load Factor: 30.54%

6. Complaints Register

Table 7: Complaints

Source Code/ Name	Root Cause Analysis	Calculation of Impacts/ emissions associated with the incident	Dispersion modeling of pollutants where applicable	Measures implemented to prevent reoccurrence	Date by which measure will be implemented
None	N/A	N/A	N/A	N/A	N/A

The rest of the information demonstrating compliance with the emission license conditions is supplied in the annual emission reports sent to your office.

For any related queries, please do not hesitate to contact me on 021 573 6162

Yours sincerely



Pamela Mrubata
GOURIKWA POWER STATION