

Weekly System Status Report – 2024 Week 10 (04/03/2024 – 10/03/2024)

Introduction

This document is intended to provide a general picture of the Adequacy of the National Electricity Supply System in the medium term. The Report will be updated weekly, on Tuesdays and circulated Wednesdays, thereafter, published on the Eskom website, updated on Wednesdays. The values contained in this report are unverified and not official yet and can change at any time.

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Historic Daily Peak System Capacity/Demand

Date	Available Dispatchable Generation (MW)	Non-commercial Generation (MW)	Residual Load Forecast (MW)	Actual Residual Demand (MW) Incl IOS	Operating Reserve Margin (Excl Non-Commercial Units)	Operating Reserve Margin (Incl Non-Commercial Units)	Forecast vs. Actual (Residual Demand)
Mon 04/Mar/2024	26,397	376	26,016	26,607	-0.8%	0.6%	-2.2%
Tue 05/Mar/2024	26,591	360	26,955	26,421	0.6%	2.0%	2.0%
Wed 06/Mar/2024	26,376	720	27,144	27,255	-3.2%	-0.6%	-0.4%
Thu 07/Mar/2024	27,598	721	26,713	26,450	4.3%	7.1%	1.0%
Fri 08/Mar/2024	26,664	723	26,027	26,691	-0.1%	2.6%	-2.5%
Sat 09/Mar/2024	28,098	723	25,602	25,887	8.5%	11.3%	-1.1%
Sun 10/Mar/2024	27,749	723	24,883	24,993	11.0%	13.9%	-0.4%

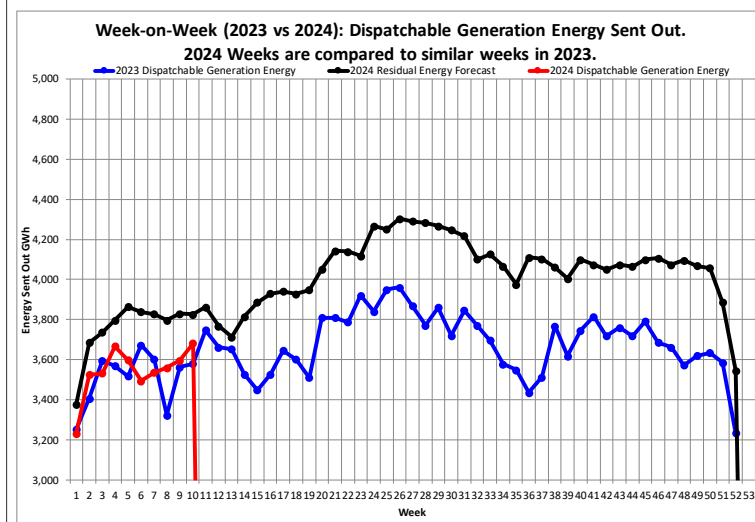
Date	Total Available Generation Incl Renewables (MW)	Non-commercial Generation (MW)	RSA Contracted Load Forecast (MW)	Actual RSA Contracted Demand (MW) Incl IOS	Operating Reserve Margin (Excl Non-Commercial Units)	Operating Reserve Margin (Incl Non-Commercial Units)	Forecast vs. Actual (RSA Contracted Demand)
Mon 04/Mar/2024	27,722	376	28,260	27,931	-0.8%	0.6%	1.2%
Tue 05/Mar/2024	28,576	468	28,395	28,139	1.6%	3.2%	0.9%
Wed 06/Mar/2024	28,030	720	28,723	28,908	-3.0%	-0.5%	-0.6%
Thu 07/Mar/2024	29,931	721	28,808	28,783	4.0%	6.5%	0.1%
Fri 08/Mar/2024	28,023	723	27,579	28,050	-0.1%	2.5%	-1.7%
Sat 09/Mar/2024	29,435	723	27,095	27,223	8.1%	10.8%	-0.5%
Sun 10/Mar/2024	29,355	723	26,257	26,599	10.4%	13.1%	-1.3%

Notes:

- Available Dispatchable Generation means **all generation resources** that can be dispatched by Eskom and includes capacity available from all emergency generation resources.
- RSA Contracted Load Forecast is the total official day-ahead hourly forecast. Residual Load Forecast excludes the expected generation from renewables.
- Actual Residual Demand is the aggregated metered hourly sent-out generation and imports from dispatchable resources and includes demand reductions. The Actual RSA Contracted Demand includes renewable generation.
- Net Maximum Dispatchable Capacity (including imports and emergency generation resources) = 49 191 MW.
- These figures do not include any demand side products.
- The peak hours for the residual demand can differ from that of the RSA contracted demand, depending on renewable generation.

Week-on-Week Dispatchable Generation Energy Sent Out

[2023 weeks compared to similar 2022 weeks]



Week 10 : Dispatchable Generation Energy Sent Out Statistics		
Energy Sent Out	3,682	GWh
Week-on-Week Growth	2.89	%
Year-on-Year Growth (Year-to-Date) Annual	0.97	%

Note:

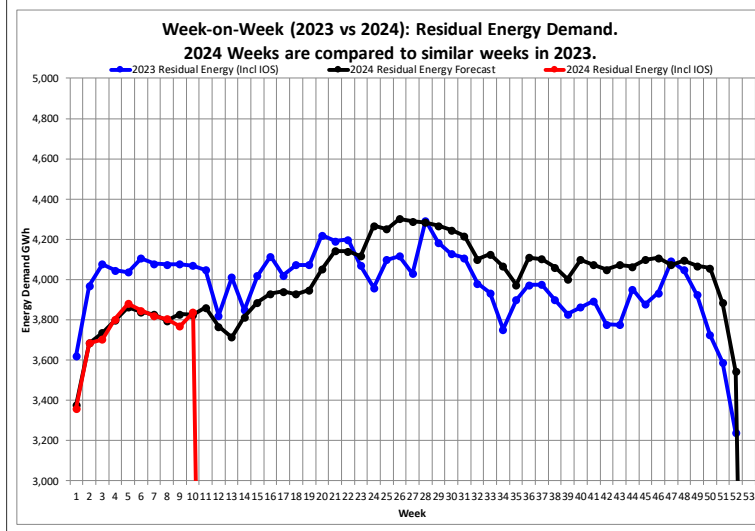
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Dispatchable Generation Energy Sent Out Statistics			
Year	01 Jan to 10 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	41,031	219,575	GWh
2020	41,019	206,725	GWh
2021	38,767	210,022	GWh
2022	39,219	202,845	GWh
2023	34,499	190,433	GWh
2024 (YTD)	35,417		GWh

Week-on-Week Residual Energy Demand

[2023 weeks compared to similar 2022 weeks]



Week 10 : Residual Energy Demand Statistics		
Energy Demand	3,837	GWh
Week-on-Week Growth	-5.73	%
Year-on-Year Growth (Year-to-Date) Annual	-6.61	%

Note:

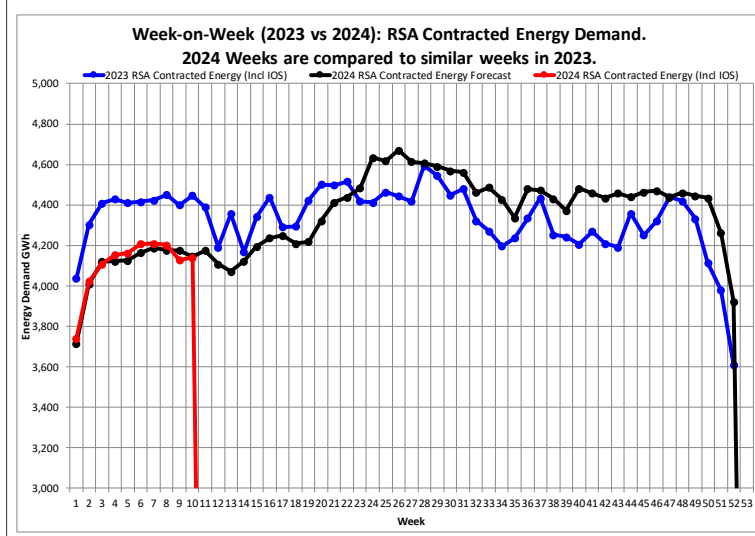
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Residual Energy Demand Statistics			
Year	01 Jan to 10 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	41,246	220,937	GWh
2020	41,659	208,151	GWh
2021	39,079	211,958	GWh
2022	39,557	211,132	GWh
2023	39,518	207,189	GWh
2024 (YTD)	37,508		GWh

Week-on-Week RSA Contracted Energy Demand

[2023 weeks compared to similar 2022 weeks]



Week 10 : RSA Contracted Energy Demand Statistics		
Energy Demand	4,141	GWh
Week-on-Week Growth	-6.89	%
Year-on-Year Growth (Year-to-Date) Annual	-6.07	%

Note:

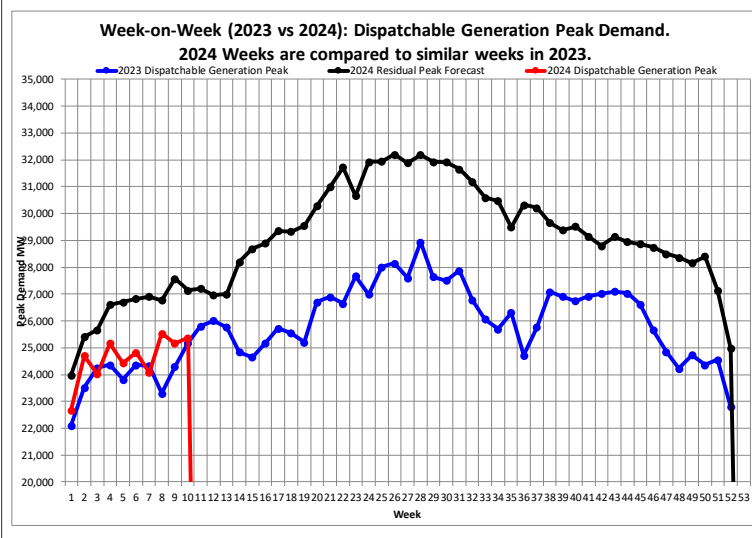
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual RSA Contracted Energy Demand Statistics			
Year	01 Jan to 10 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	43,642	232,524	GWh
2020	43,938	220,630	GWh
2021	41,926	227,166	GWh
2022	42,458	227,335	GWh
2023	43,026	225,874	GWh
2024 (YTD)	41,077		GWh

Week-on-Week Dispatchable Generation Peak Demand

[2023 weeks compared to similar 2022 weeks]



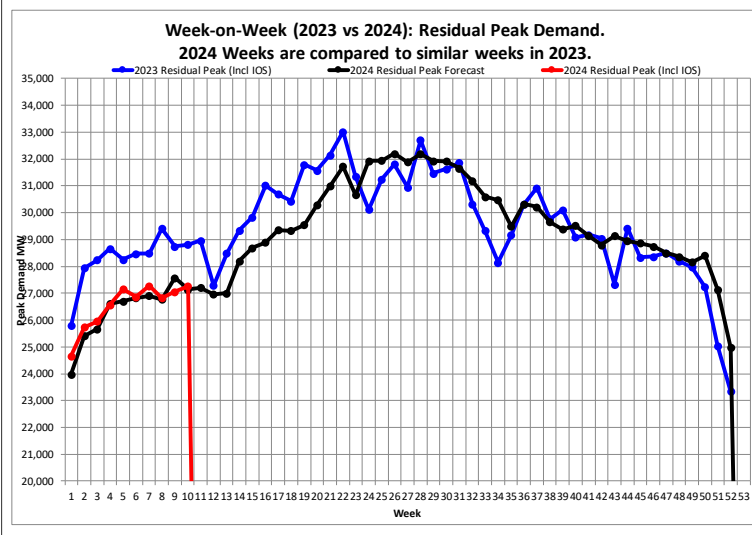
Week 10 : Dispatchable Generation Peak Demand Statistics		
Peak Demand	25,363	MW
Week-on-Week Growth	0.75	%
Year-on-Year Growth (Year-to-Date) Annual	1.43	%

Note:
2024 Weeks are compared to similar weeks in 2023.
(2024 week 1 ~ 2023 week 1)

Annual Dispatchable Generation Peak Demand Statistics			
Year	Peak Date	Annual Peak	Unit
2019	Thu 30-May-2019	33,066	MW
2020	Wed 17-Jun-2020	32,384	MW
2021	Thu 15-Jul-2021	32,292	MW
2022	Thu 02-Jun-2022	31,756	MW
2023	Mon 10-Jul-2023	28,937	MW
2024 (YTD)	Wed 21-Feb-2024	25,535	MW

Week-on-Week Residual Peak Demand

[2023 weeks compared to similar 2022 weeks]



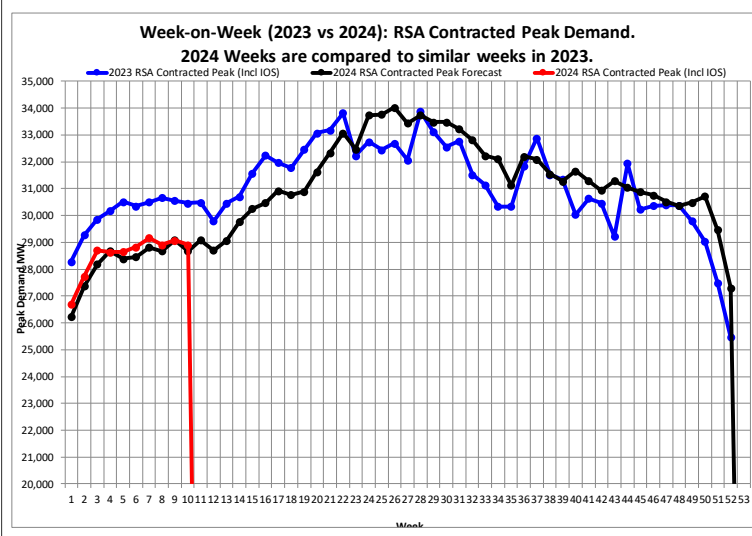
Week 10 : Residual Peak Demand Statistics		
Peak Demand	27,255	MW
Week-on-Week Growth	-5.40	%
Year-on-Year Growth (Year-to-Date) Annual	-7.27	%

Note:
2024 Weeks are compared to similar weeks in 2023.
(2024 week 1 ~ 2023 week 1)

Annual Residual Peak Demand Statistics			
Year	Peak Date	Annual Peak	Unit
2019	Thu 30-May-2019	33,746	MW
2020	Wed 15-Jul-2020	32,756	MW
2021	Tue 08-Jun-2021	34,029	MW
2022	Thu 23-Jun-2022	33,136	MW
2023	Tue 30-May-2023	33,016	MW
2024 (YTD)	Mon 12-Feb-2024	27,268	MW

Week-on-Week RSA Contracted Peak Demand

[2023 weeks compared to similar 2022 weeks]



Week 10 : RSA Contracted Peak Demand Statistics		
Peak Demand	28,908	MW
Week-on-Week Growth	-5.11	%
Year-on-Year Growth (Year-to-Date) Annual	-4.87	%

Note:
2024 Weeks are compared to similar weeks in 2023.
(2024 week 1 ~ 2023 week 1)

Annual RSA Contracted Peak Demand Statistics			
Year	Peak Date	Annual Peak	Unit
2019	Thu 30-May-2019	34,510	MW
2020	Tue 01-Sep-2020	34,155	MW
2021	Thu 22-Jul-2021	35,005	MW
2022	Thu 23-Jun-2022	34,666	MW
2023	Mon 10-Jul-2023	33,873	MW
2024 (YTD)	Mon 12-Feb-2024	29,168	MW

Weekly Generation Availability

	Week														Annual (Jan - Dec)	
	49	50	51	52	1	2	3	4	5	6	7	8	9	10	2024	2023
Energy Availability Factor (Eskom EAF)	55.07	54.72	54.66	49.51	48.65	51.50	51.89	52.97	51.50	50.54	52.54	51.62	54.02	53.85	51.97	54.71
Planned Outage Factor	14.53	17.89	17.29	19.07	18.93	17.22	17.63	16.76	16.37	15.92	17.13	16.75	16.07	13.15	16.52	10.88
Unplanned Outage Factor	28.79	26.16	26.91	30.38	31.16	30.03	29.08	29.18	31.19	32.44	29.32	30.47	28.91	32.51	30.45	33.08
Other Outage Factor	1.61	1.23	1.14	1.04	1.26	1.25	1.40	1.09	0.94	1.10	1.01	1.16	1.00	0.49	1.06	1.33

EAF: Ratio of the available energy generation over a given time period to the maximum amount of energy which could be produced over the same time period.

Outage Factors: Ratio of energy losses over a given time period to the maximum amount of energy which could be produced over the same time period.

YTD: Year-to-Date (01 January of current year to current week)

52 Week Outlook

This is the forecast demand vs. available generating capacity for each week for 52 weeks ahead. Colour codes ranging from Green (no shortage) to Red (worst case) are used to indicate the absence or presence of a capacity constraint.

Week Start	Week	MW RSA Contracted Forecast	MW Residual Forecast	MW Available Dispatchable Capacity	MW Available Capacity (Less OR and UA)	MW Planned Maintenance	MW Unplanned Outage Assumption (UA)	MW Planned Risk Level (-18200 MW)	MW Likely Risk Scenario (-20200 MW)
11-Mar-24	11	29080	27201	42462	24262	6729	16000		
18-Mar-24	12	28702	26956	42226	24026	6965	16000		
25-Mar-24	13	29071	27002	43273	25073	5918	16000		
01-Apr-24	14	29771	28201	43699	25499	5492	16000		
08-Apr-24	15	30254	28684	43165	24965	6026	16000		
15-Apr-24	16	30470	28900	44223	26023	4968	16000		
22-Apr-24	17	30924	29354	44573	26373	4618	16000		
29-Apr-24	18	30769	29324	45213	27013	3978	16000		
06-May-24	19	30902	29551	45785	27585	3406	16000		
13-May-24	20	31632	30281	46653	28453	2538	16000		
20-May-24	21	32341	30990	46749	28549	2442	16000		
27-May-24	22	33080	31729	47086	28886	2105	16000		
03-Jun-24	23	32482	30662	46366	28166	2825	16000		
10-Jun-24	24	33746	31927	46366	28166	2825	16000		
17-Jun-24	25	33765	31945	46276	28076	2915	16000		
24-Jun-24	26	34023	32204	46366	28166	2825	16000		
01-Jul-24	27	33440	31884	46466	28266	2725	16000		
08-Jul-24	28	33738	32182	46816	28616	2375	16000		
15-Jul-24	29	33487	31932	46961	28761	2230	16000		
22-Jul-24	30	33477	31921	46871	28671	2320	16000		
29-Jul-24	31	33217	31661	46813	28613	2378	16000		
05-Aug-24	32	32815	31183	45753	27553	3438	16000		
12-Aug-24	33	32235	30602	45033	26833	4158	16000		
19-Aug-24	34	32102	30469	45580	27380	3611	16000		
26-Aug-24	35	31122	29489	45626	27426	3565	16000		
02-Sep-24	36	32206	30318	45441	27241	3750	16000		
09-Sep-24	37	32100	30213	44848	26648	4343	16000		
16-Sep-24	38	31551	29663	44568	26368	4623	16000		
23-Sep-24	39	31272	29384	43550	25350	5641	16000		
30-Sep-24	40	31663	29516	44781	26581	4410	16000		
07-Oct-24	41	31291	29143	43253	25053	5938	16000		
14-Oct-24	42	30935	28796	43253	25053	5938	16000		
21-Oct-24	43	31288	29140	43253	25053	5938	16000		
28-Oct-24	44	31043	28945	42993	24793	6198	16000		
04-Nov-24	45	30877	28868	43087	24887	6104	16000		
11-Nov-24	46	30756	28747	43973	25773	5218	16000		
18-Nov-24	47	30513	28504	43480	25280	5711	16000		
25-Nov-24	48	30369	28360	43480	25280	5711	16000		
02-Dec-24	49	30491	28165	43585	25385	5606	16000		
09-Dec-24	50	30725	28398	43585	25385	5606	16000		
16-Dec-24	51	29472	27145	42318	24118	6873	16000		
23-Dec-24	52	27305	24979	41103	22903	8088	16000		
30-Dec-24	1	27003	24770	41428	23228	7763	16000		
06-Jan-25	2	29323	27090	42625	24425	6566	16000		
13-Jan-25	3	30006	27773	42357	24157	6834	16000		
20-Jan-25	4	30111	27878	41543	23343	7648	16000		
27-Jan-25	5	30338	28105	42803	24603	6388	16000		
03-Feb-25	6	30275	28153	43509	25309	5682	16000		
10-Feb-25	7	30453	28331	43509	25309	5682	16000		
17-Feb-25	8	30607	28486	42428	24228	6763	16000		
24-Feb-25	9	30504	28382	43723	25523	5468	16000		
03-Mar-25	10	30527	28547	42922	24722	6269	16000		
10-Mar-25	11	30947	28967	42941	24741	6250	16000		
17-Mar-25	12	30855	28808	43508	25308	5683	16000		

Notes - Assumptions critical:

The maintenance plan included in these assumptions includes a base scenario of outages (planned risk level). As there is opportunity for further outages, these will be included. This "likely risk scenario" includes an additional 1500 MW of outages on the base plan.

The expected imports at Apollo is included.

Avon and Dedisa is also included.

The forecast used is the latest operational weekly residual peak forecast, which excludes the expected renewable generation.

Operating Reserve (OR) from Generation: 2 200 MW

Unplanned Outage Assumption (UA): 16 000 MW

Reserves: OR + UA = 18 200 MW

Eskom Installed Capacity: 48 186 MW.

Installed Dispatchable Capacity: 49 191 MW (Incl. Avon and Dedisa).

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Risk Level	Description
Green	Adequate Generation to meet Demand and Reserves.
Yellow	< 1 000MW Possibly short to meet Reserves
Orange	1 001MW - 2 000MW Definitely short to meet Reserves and possibly Demand
Red	> 2 001MW Short to meet Demand and Reserves

Medium Term Peak Demand/Capacity Forecast

Please go to the link below for the Medium-term System Adequacy Outlook - 2024 to 2028. (Published 30 October 2023).

https://www.eskom.co.za/wp-content/uploads/2023/11/Medium_Term_System_Adequacy_Outlook_2024-2028.pdf

or Download the medium-term system adequacy outlook 2024 – 2028 from

<https://www.eskom.co.za/eskom-divisions/tx/system-adequacy-reports/>

Renewable Energy Statistics

Note: Times are expressed as hour beginning

Current Installed Capacity (MW)	
CSP	500.0
PV	2,287.1
Wind (Eskom+IPP)	3,442.6
Hybrid	150.0
Total (Incl other REs)	6,430.2
Estimated Rooftop PV	5,439.9

Maximum Contribution (MW) - based on System Operator data (subject to metering verification)					
Cal Year	Indicator	CSP	PV	Wind (Eskom+IPP)	Total (Incl other REs)
All Time	Maximum	506.2	2,111.7	3,102.2	5,129.8
	Max Date	15-Mar-2022 15:00	10-Feb-2024 12:00	25-Aug-2023 20:00	15-Sep-2023 13:00
2016	Maximum	200.9	1,350.5	1,229.8	2,576.3
Dec 2016	Max Date	09-Dec-2016 12:00	16-Dec-2016 12:00	23-Dec-2016 13:00	23-Dec-2016 13:00
2017	Maximum	302.0	1,432.5	1,708.2	3,142.7
Dec 2017	Max Date	23-Dec-2017 16:00	25-Dec-2017 12:00	25-Dec-2017 18:00	13-Dec-2017 13:00
2018	Maximum	399.7	1,392.1	1,902.3	3,298.9
Dec 2018	Max Date	04-Dec-2018 16:00	13-Dec-2018 12:00	27-Dec-2018 16:00	01-Dec-2018 12:00
2019	Maximum	502.1	1,375.6	1,872.0	3,530.6
Dec 2019	Max Date	19-Dec-2019 11:00	15-Dec-2019 11:00	14-Dec-2019 15:00	14-Dec-2019 14:00
2020	Maximum	504.5	1,929.2	2,113.9	4,050.0
Dec 2020	Max Date	11-Dec-2020 12:00	02-Dec-2020 11:00	01-Dec-2020 19:00	01-Dec-2020 13:00
2021	Maximum	504.9	2,099.5	2,639.3	4,784.7
Dec 2021	Max Date	29-Dec-2021 11:00	01-Dec-2021 12:00	15-Dec-2021 17:00	15-Dec-2021 15:00
2022	Maximum	506.2	2,048.8	3,028.1	5,126.1
Dec 2022	Max Date	04-Dec-2022 09:00	03-Dec-2022 12:00	02-Dec-2022 16:00	02-Dec-2022 15:00
2023	Maximum	505.8	2,047.8	3,102.2	5,129.8
Dec 2023	Max Date	14-Dec-2023 15:00	08-Dec-2023 11:00	14-Dec-2023 18:00	14-Dec-2023 15:00
2024	Maximum	501.3	2,111.7	3,049.9	4,995.7
Dec 2024	Max Date				

Annual Energy Contribution (MWh) - based on System Operator data (subject to metering verification)					
Cal Year	Indicator	CSP	PV	Wind (Eskom+IPP)	Total (Incl other REs)
All Time	Annual Energy	1,656,017	5,069,146	11,613,364	18,241,202
2016	Total	529,522	2,630,141	3,730,771	6,951,261
Dec 2016	Total	45,871	329,889	389,040	773,152
2017	Total	687,703	3,324,857	5,081,023	9,198,632
Dec 2017	Total	120,490	335,874	579,133	1,043,570
2018	Total	1,031,288	3,282,124	6,467,095	10,887,902
Dec 2018	Total	138,945	333,543	560,078	1,040,835
2019	Total	1,557,151	3,324,989	6,624,642	11,586,945
Dec 2019	Total	168,251	299,366	640,412	1,115,544
2020	Total	1,626,049	4,140,212	6,625,830	12,478,704
Dec 2020	Total	195,725	476,522	674,198	1,356,380
2021	Total	1,656,017	5,069,146	8,359,224	15,208,327
Dec 2021	Total	179,667	491,187	791,019	1,473,718
2022	Total	1,448,276	4,844,736	9,692,373	16,202,974
Dec 2022	Total	186,297	497,137	938,268	1,642,267
2023	Total	1,375,349	5,014,845	11,613,364	18,241,202
Dec 2023	Total	137,835	484,361	1,041,728	1,673,035
2024	Total	368,820	1,283,418	2,251,720	3,932,134
Dec 2024	Total				

Maximum Difference between Consecutive Evening Peaks (MW) -			Maximum proportion that Renewables contributed towards actual hourly energy		
Cal Year	Indicator	Total (Incl other REs)	Cal Year	Indicator	Total (Incl other REs)
All Time	Maximum	2,148	All Time	Maximum	21.8%
	Max Date	20-Apr-2023 to 21-Apr-2023		Max Date	20-Feb-2023 15:00
2016	Maximum	828	2016	Maximum	9.8%
Dec 2016	Max Date	25-Dec-2016 to 26-Dec-2016	Dec 2016	Max Date	23-Dec-2016 13:00
2017	Maximum	1,038	2017	Maximum	12.7%
Dec 2017	Max Date	08-Dec-2017 to 09-Dec-2017	Dec 2017	Max Date	25-Dec-2017 15:00
2018	Maximum	1,336	2018	Maximum	13.1%
Dec 2018	Max Date	05-Dec-2018 to 06-Dec-2018	Dec 2018	Max Date	01-Dec-2018 12:00
2019	Maximum	1,464	2019	Maximum	13.9%
Dec 2019	Max Date	07-Dec-2019 to 08-Dec-2019	Dec 2019	Max Date	14-Dec-2019 14:00
2020	Maximum	1,488	2020	Maximum	16.1%
Dec 2020	Max Date	01-Dec-2020 to 02-Dec-2020	Dec 2020	Max Date	27-Dec-2020 15:00
2021	Maximum	1,744	2021	Maximum	19.1%
Dec 2021	Max Date	02-Dec-2021 to 03-Dec-2021	Dec 2021	Max Date	15-Dec-2021 13:00
2022	Maximum	1,523	2022	Maximum	19.3%
Dec 2022	Max Date	22-Dec-2022 to 23-Dec-2022	Dec 2022	Max Date	29-Dec-2022 14:00
2023	Maximum	2,148	2023	Maximum	21.8%
Dec 2023	Max Date	30-Dec-2023 to 31-Dec-2023	Dec 2023	Max Date	22-Dec-2023 12:00
2024	Maximum	1,591	2024	Maximum	19.8%
Dec 2024	Max Date		Dec 2024	Max Date	

Estimated Rooftop PV

Maximum/Installed Rooftop PV (MW):	Eastern Cape	Free State	Gauteng	KwaZulu-Natal	Limpopo	Mpumalanga	Northern Cape	North-West	Western Cape	Total
Feb-24	368.2	307.7	1,503.70	810.9	413.3	516.1	208.4	669.3	642.4	5,439.90
Jan-24	368.2	280.2	1,503.70	810.9	413.3	516.1	208.4	669.3	642.4	5,412.30
Dec-23	368.2	280.2	1,295.00	810.9	413.3	516.1	208.4	669.3	642.4	5,203.70
Nov-23	368.2	280.2	1,216.60	810.9	413.3	509.3	129.5	669.3	642.4	5,039.60
Oct-23	368.2	280.2	1,207.80	810.9	413.3	509.3	129.5	669.3	616.8	5,005.00
Sep-23	368.2	280.2	1,207.80	810.9	413.3	476.6	129.5	669.3	527.4	4,883.00
Aug-23	368.2	280.2	1,207.80	810.9	345.6	474.1	129.5	669.3	527.4	4,812.80
Jul-23	368.2	280.2	1,207.80	810.9	296.6	450.7	129.5	669.3	527.4	4,740.40
Jun-23	284.3	280.2	1207.8	565.8	296.6	450.7	129.5	669.3	527.4	4,411.50
May-23	190	204.9	1072.1	565.8	296.6	450.7	129.5	669.3	457.9	4,036.80
Apr-23	163.2	160.5	917.5	417.5	226.8	326.7	117.5	669.3	369	3,368.00
Mar-23	163.2	160.5	917.5	417.5	189.8	317.9	117.5	669.3	289.7	3,242.80
Feb-23	163.2	160.5	917.5	417.5	189.8	305.6	117.5	669.3	198	3,138.80
Jan-23	143.1	160.5	917.5	417.5	189.8	298.8	82.6	669.3	198	3,077.10
Dec-22	130.2	160.3	848.3	356.6	189.8	298.8	82	310.4	198	2,574.30
Nov-22	130.2	160.3	848.3	356.6	189.8	298.8	79.1	184.8	156.6	2,404.50
Oct-22	130.2	160.3	848.3	296.9	189.8	298.8	79.1	184.8	145.5	2,333.60
Sep-22	130.2	160.3	848.3	296.9	189.8	298.8	79.1	184.8	145.5	2,333.60
Aug-22	130.2	160.3	848.3	296.9	189.8	298.8	79.1	184.8	145.5	2,333.60
Jul-22	130.2	148.8	790.6	296.9	189.8	298.8	79.1	184.8	145.5	2,264.50

If there is a big jump from month to month it is mainly due to the high number of cloudy days during the latter month, not necessarily due to the number of installations in that month. It would very likely have been distributed in the preceding few months.