

Weekly System Status Report – 2024 Week 34 (19/08/2024 – 25/08/2024)

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 19/Aug/2024	32,601	0	29,619	29,258	11.4%	11.4%	1.2%
Tue 20/Aug/2024	32,979	0	29,086	27,686	19.1%	19.1%	5.1%
Wed 21/Aug/2024	34,178	0	28,513	27,445	24.5%	24.5%	3.9%
Thu 22/Aug/2024	33,838	0	28,533	27,823	21.6%	21.6%	2.6%
Fri 23/Aug/2024	34,750	0	26,420	26,934	29.0%	29.0%	-1.9%
Sat 24/Aug/2024	33,618	0	26,397	25,710	30.8%	30.8%	2.7%
Sun 25/Aug/2024	33,315	0	26,768	26,495	25.7%	25.7%	1.0%

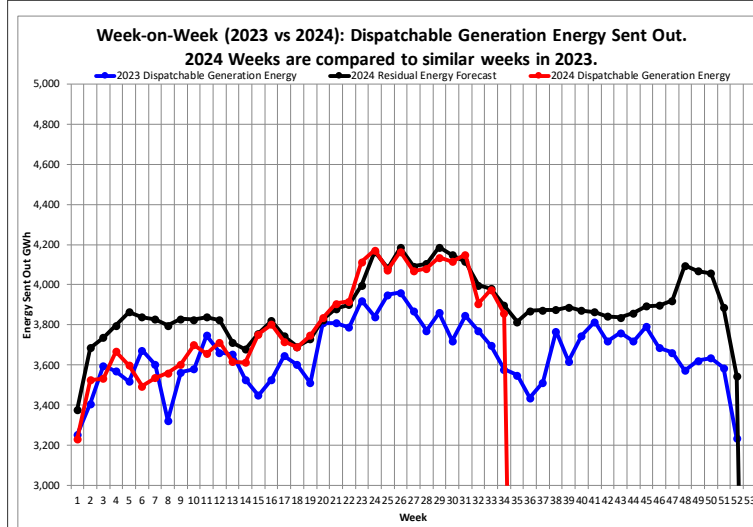
Date	Total Available Generation Incl Renewables (MW)	Non-commercial Generation (MW)	RSA Contracted Load Forecast (MW)	Actual RSA Contracted Demand (MW) Incl IOS	Operating Reserve Margin (Excl Non-Commercial Units)	Operating Reserve Margin (Incl Non-Commercial Units)	Forecast vs. Actual (RSA Contracted Demand)
Mon 19/Aug/2024	33,340	0	30,539	29,997	11.1%	11.1%	1.8%
Tue 20/Aug/2024	35,111	0	30,755	29,702	18.2%	18.2%	3.5%
Wed 21/Aug/2024	36,554	0	30,762	29,821	22.6%	22.6%	3.2%
Thu 22/Aug/2024	36,273	0	31,010	30,258	19.9%	19.9%	2.5%
Fri 23/Aug/2024	36,692	0	28,811	28,875	27.1%	27.1%	-0.2%
Sat 24/Aug/2024	35,016	0	28,196	27,108	29.2%	29.2%	4.0%
Sun 25/Aug/2024	34,305	0	27,922	27,484	24.8%	24.8%	1.6%

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) = 49 974 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

[2024 weeks compared to similar 2023 weeks]



Week 34 : Dispatchable Generation Energy Sent Out Statistics		
Energy Sent Out	3,856	GWh
Week-on-Week Growth	7.79	%
Year-on-Year Growth (Year-to-Date) Annual	3.72	%

Note:

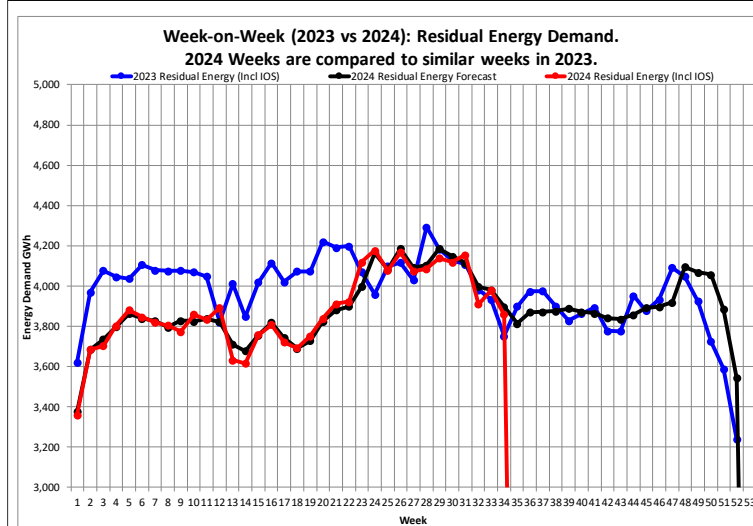
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Dispatchable Generation Energy Sent Out Statistics			
Year	01 Jan to 25 Aug Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	144,007	219,574	GWh
2020	134,098	206,725	GWh
2021	138,846	210,021	GWh
2022	136,252	202,847	GWh
2023	124,013	190,434	GWh
2024 (YTD)	129,213		GWh

Week-on-Week Residual Energy Demand

[2024 weeks compared to similar 2023 weeks]



Week 34 : Residual Energy Demand Statistics		
Energy Demand	3,859	GWh
Week-on-Week Growth	2.85	%
Year-on-Year Growth (Year-to-Date) Annual	-4.14	%

Note:

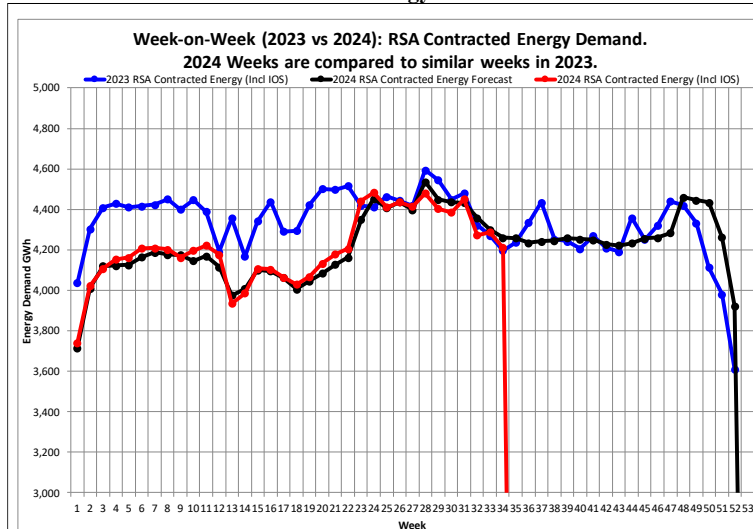
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Residual Energy Demand Statistics			
Year	01 Jan to 25 Aug Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	144,725	220,936	GWh
2020	135,211	208,150	GWh
2021	139,935	211,957	GWh
2022	138,994	211,134	GWh
2023	136,889	207,190	GWh
2024 (YTD)	131,773		GWh

Week-on-Week RSA Contracted Energy Demand

[2024 weeks compared to similar 2023 weeks]



Week 34 : RSA Contracted Energy Demand Statistics		
Energy Demand	4,211	GWh
Week-on-Week Growth	0.33	%
Year-on-Year Growth (Year-to-Date) Annual	-4.09	%

Note:

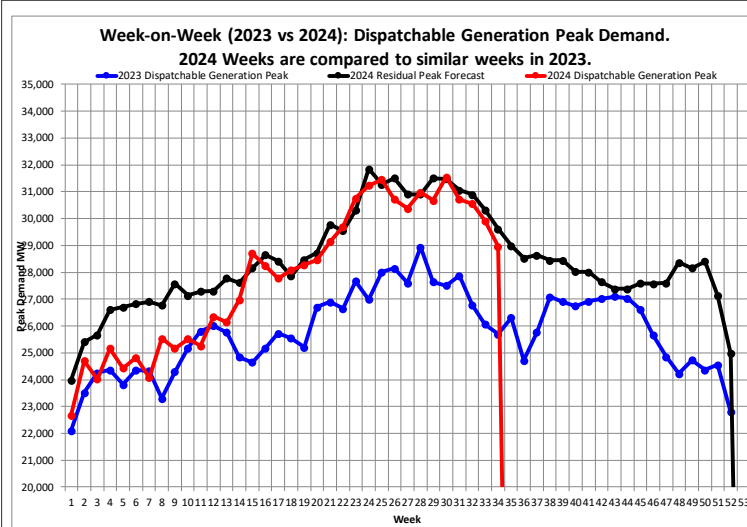
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual RSA Contracted Energy Demand Statistics			
Year	01 Jan to 25 Aug Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	151,898	232,523	GWh
2020	142,574	220,629	GWh
2021	148,972	227,165	GWh
2022	148,851	227,337	GWh
2023	148,518	225,875	GWh
2024 (YTD)	143,056		GWh

Week-on-Week Dispatchable Generation Peak Demand

[2024 weeks compared to similar 2023 weeks]



Week 34 : Dispatchable Generation Peak Demand Statistics			
Peak Demand	28,960	MW	
Week-on-Week Growth	12.70	%	
Year-on-Year Growth (Year-to-Date) Annual	9.02	%	

Note:

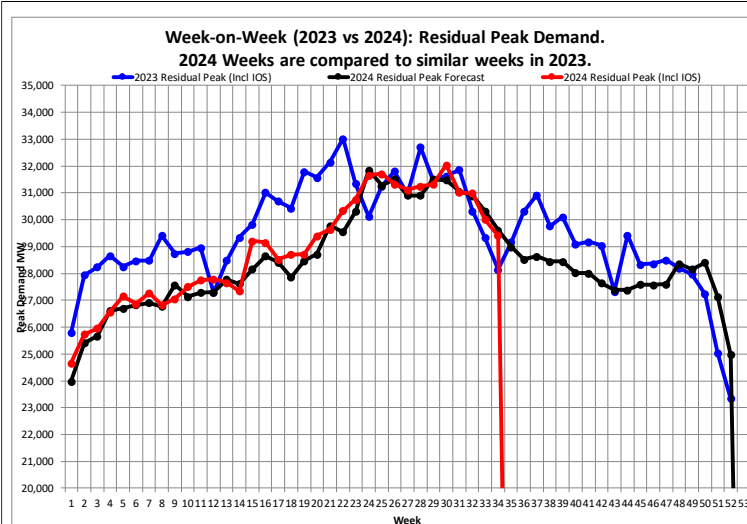
2024 Weeks are compared to similar weeks in 2023.

(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)	Mon 22-Jul-2024	31,547	MW

Week-on-Week Residual Peak Demand

[2024 weeks compared to similar 2023 weeks]



Week 34 : Residual Peak Demand Statistics			
Peak Demand	29,407	MW	
Week-on-Week Growth	4.46	%	
Year-on-Year Growth (Year-to-Date) Annual	-2.94	%	

Note:

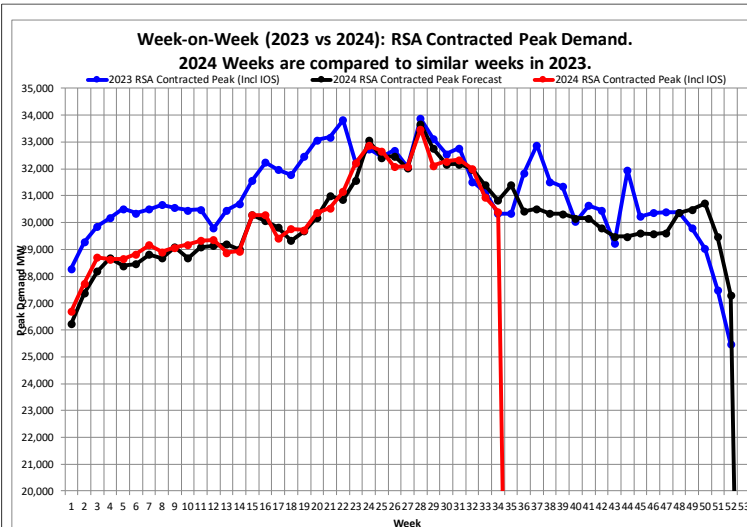
2024 Weeks are compared to similar weeks in 2023.

(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 22-Jul-2024	32,043	MW

Week-on-Week RSA Contracted Peak Demand

[2024 weeks compared to similar 2023 weeks]



Week 34 : RSA Contracted Peak Demand Statistics			
Peak Demand	30,406	MW	
Week-on-Week Growth	0.22	%	
Year-on-Year Growth (Year-to-Date) Annual	-1.14	%	

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)	Tue 09-Jul-2024	33,485	MW

Weekly Generation Availability

	Week														Annual (Jan - Dec)	
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	2024	2023
Energy Availability Factor (Eskom EAF)	60.93	63.90	63.49	62.60	61.92	63.24	65.58	65.33	67.20	70.33	69.46	65.42	66.41	68.12	59.39	54.69
Planned Outage Factor	9.12	9.20	11.90	11.92	12.60	10.81	8.35	8.35	8.26	8.53	9.07	11.23	9.99	9.06	12.43	10.90
Unplanned Outage Factor	29.39	26.50	23.98	24.72	24.15	25.29	25.65	25.82	23.96	20.38	21.18	22.86	23.26	22.47	27.50	33.08
Other Outage Factor	0.56	0.40	0.63	0.76	1.33	0.66	0.42	0.50	0.58	0.76	0.29	0.49	0.34	0.35	0.68	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	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 (-16200 MW)	MW Likely Risk Scenario (-18200 MW)
26-Aug-24	35	31400	28986	45214	29014	4760	14000		
02-Sep-24	36	30416	28528	45169	29969	4805	13000		
09-Sep-24	37	30517	28630	44891	29691	5083	13000		
16-Sep-24	38	30335	28448	44891	29691	5083	13000		
23-Sep-24	39	30328	28440	44220	29020	5754	13000		
30-Sep-24	40	30165	28018	44426	29226	5548	13000		
07-Oct-24	41	30156	28008	44806	29606	5168	13000		
14-Oct-24	42	29790	27645	45111	29911	4863	13000		
21-Oct-24	43	29485	27386	44030	28830	5944	13000		
28-Oct-24	44	29481	27382	44471	29271	5503	13000		
04-Nov-24	45	29602	27593	44801	29601	5173	13000		
11-Nov-24	46	29581	27572	44141	28941	5833	13000		
18-Nov-24	47	29612	27603	44141	28941	5833	13000		
25-Nov-24	48	30369	28360	44422	29222	5552	13000		
02-Dec-24	49	30491	28165	43311	28111	6663	13000		
09-Dec-24	50	30725	28398	43268	28068	6706	13000		
16-Dec-24	51	29472	27145	42111	26911	7863	13000		
23-Dec-24	52	27305	24979	41536	26336	8438	13000		
30-Dec-24	1	27003	24770	40746	25546	9228	13000		
06-Jan-25	2	29323	27090	43093	27893	6881	13000		
13-Jan-25	3	30006	27773	42960	27760	7014	13000		
20-Jan-25	4	30111	27878	43780	28580	6194	13000		
27-Jan-25	5	30338	28105	43296	28096	6678	13000		
03-Feb-25	6	30275	28153	43689	28489	6285	13000		
10-Feb-25	7	30453	28331	43174	27974	6800	13000		
17-Feb-25	8	30607	28486	43959	28759	6015	13000		
24-Feb-25	9	30504	28382	44045	28845	5929	13000		
03-Mar-25	10	30359	28547	43946	28746	6028	13000		
10-Mar-25	11	30779	28967	43801	28601	6173	13000		
17-Mar-25	12	30715	28808	43801	28601	6173	13000		
24-Mar-25	13	30578	28744	43541	28341	6433	13000		
31-Mar-25	14	30504	28778	43173	27973	6801	13000		
07-Apr-25	15	30981	29254	43363	28163	6611	13000		
14-Apr-25	16	31342	29616	43223	28023	6751	13000		
21-Apr-25	17	32093	30366	44033	28833	5941	13000		
28-Apr-25	18	31446	29719	44508	29308	5466	13000		
05-May-25	19	32738	31338	44893	29693	5081	13000		
12-May-25	20	33277	31878	46304	31104	3670	13000		
19-May-25	21	34328	32929	46494	31294	3480	13000		
26-May-25	22	34432	33033	46494	31294	3480	13000		
02-Jun-25	23	32403	31205	45839	30639	4135	13000		
09-Jun-25	24	32620	31422	45337	30137	4637	13000		
16-Jun-25	25	32560	31362	46217	31017	3757	13000		
23-Jun-25	26	32971	31773	46397	31197	3577	13000		
30-Jun-25	27	33174	31742	45529	30329	4445	13000		
07-Jul-25	28	33039	31607	45102	29902	4872	13000		
14-Jul-25	29	33049	31617	45369	30169	4605	13000		
21-Jul-25	30	32710	31278	44934	29734	5040	13000		
28-Jul-25	31	32192	30760	45917	30717	4057	13000		
04-Aug-25	32	31787	30155	44377	29177	5597	13000		
11-Aug-25	33	31271	29639	44851	29651	5123	13000		
18-Aug-25	34	30651	29019	45123	29923	4851	13000		
25-Aug-25	35	30269	28628	44483	29283	5491	13000		
01-Sep-25	36	31171	29283	43833	28633	6141	13000		

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): 14 000 MW (13000 MW from September onwards)

Reserves: OR + UA = 16 200 MW

Eskom Installed Capacity: 48 819 MW.

Installed Dispatchable Capacity: 49 974 MW (Incl. Avon and Dedisa).

Key:

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	5,952.6

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	501.6	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	727,851	3,194,655	6,943,234	11,017,104
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	2,685	All Time	Maximum	21.8%
	Max Date	12-Aug-2024 to 13-Aug-2024		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	2,685	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
Jul-24	368.2	319.2	1,796.80	810.9	413.3	516.1	334.9	681.2	710.1	5,952.60
Jun-24	368.2	319.2	1,636.80	810.9	413.3	516.1	334.9	681.2	710.1	5,790.50
May-24	368.2	319.2	1,503.70	810.9	413.3	516.1	310.4	681.2	642.4	5,565.30
Apr-24	368.2	319.2	1,503.70	810.9	413.3	516.1	247	669.3	642.4	5,490.00
Mar-24	368.2	307.7	1,503.70	810.9	413.3	516.1	208.4	669.3	642.4	5,439.90
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	1216.6	810.9	413.3	509.3	129.5	669.3	642.4	5,039.60
Oct-23	368.2	280.2	1207.8	810.9	413.3	509.3	129.5	669.3	616.8	5,005.00
Sep-23	368.2	280.2	1207.8	810.9	413.3	476.6	129.5	669.3	527.4	4,883.00
Aug-23	368.2	280.2	1207.8	810.9	345.6	474.1	129.5	669.3	527.4	4,812.80
Jul-23	368.2	280.2	1207.8	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.