

Weekly System Status Report – 2024 Week 50 (09/12/2024 – 15/12/2024)

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 09/Dec/2024	30,726	0	26,356	26,576	15.6%	15.6%	-0.8%
Tue 10/Dec/2024	29,391	0	26,669	26,246	12.0%	12.0%	1.6%
Wed 11/Dec/2024	29,624	0	26,748	25,502	16.2%	16.2%	4.9%
Thu 12/Dec/2024	27,653	0	26,332	24,670	12.1%	12.1%	6.7%
Fri 13/Dec/2024	27,890	0	25,161	24,529	13.7%	13.7%	2.6%
Sat 14/Dec/2024	27,671	0	22,384	24,401	13.4%	13.4%	-8.3%
Sun 15/Dec/2024	29,975	0	23,888	22,532	33.0%	33.0%	6.0%

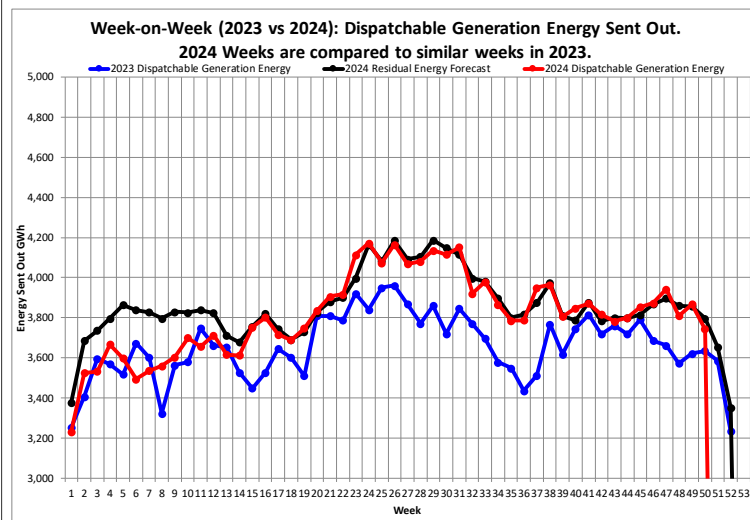
Date	Total Available Generation Incl Renewables (MW)	Non-commercial Generation (MW)	RSA Contracted Load Forecast (MW)	Actual RSA Contracted Demand (MW) Incl IOS	Operating Reserve Margin (Excl Non-Commercial Units)	Operating Reserve Margin (Incl Non-Commercial Units)	Forecast vs. Actual (RSA Contracted Demand)
Mon 09/Dec/2024	32,743	0	28,493	28,593	14.5%	14.5%	-0.4%
Tue 10/Dec/2024	31,405	0	28,772	28,260	11.1%	11.1%	1.8%
Wed 11/Dec/2024	32,920	0	28,981	27,977	17.7%	17.7%	3.6%
Thu 12/Dec/2024	30,634	0	29,062	27,651	10.8%	10.8%	5.1%
Fri 13/Dec/2024	30,191	0	27,899	26,830	12.5%	12.5%	4.0%
Sat 14/Dec/2024	29,274	0	24,365	26,005	12.6%	12.6%	-6.3%
Sun 15/Dec/2024	33,023	0	26,272	25,580	29.1%	29.1%	2.7%

Notes:

1. Available Dispatchable Generation means **all generation resources** that can be dispatched by Eskom and includes capacity available from all emergency generation resources.
2. RSA Contracted Load Forecast is the total official day-ahead hourly forecast. Residual Load Forecast excludes the expected generation from renewables.
3. 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.
4. Net Maximum Dispatchable Capacity (including imports and emergency generation resources) = 49 389 MW.
5. These figures do not include any demand side products.
6. 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 50 : Dispatchable Generation Energy Sent Out Statistics		
Energy Sent Out	3,743	GWh
Week-on-Week Growth	2.99	%
Year-on-Year Growth (Year-to-Date) Annual	4.13	%

Note:

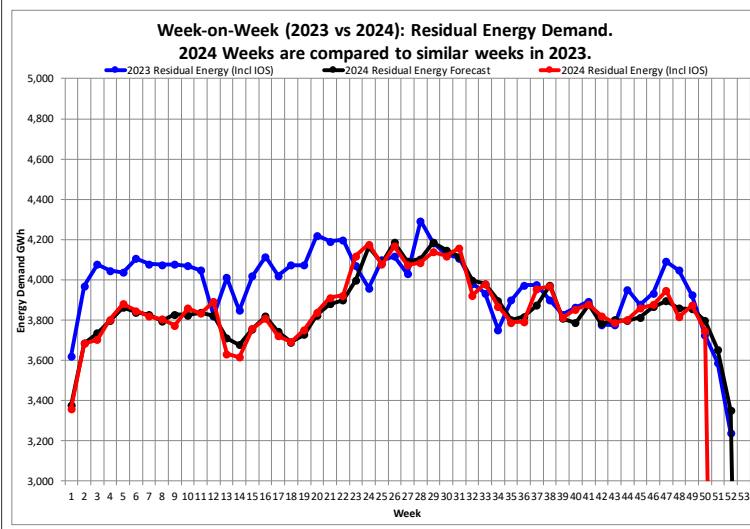
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Dispatchable Generation Energy Sent Out Statistics			
Year	01 Jan to 15 Dec Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	210,963	219,574	GWh
2020	198,341	206,725	GWh
2021	201,835	210,021	GWh
2022	195,607	202,847	GWh
2023	182,611	190,434	GWh
2024 (YTD)	190,739		GWh

Week-on-Week Residual Energy Demand

[2024 weeks compared to similar 2023 weeks]



Week 50 : Residual Energy Demand Statistics		
Energy Demand	3,748	GWh
Week-on-Week Growth	0.63	%
Year-on-Year Growth (Year-to-Date) Annual	-3.26	%

Note:

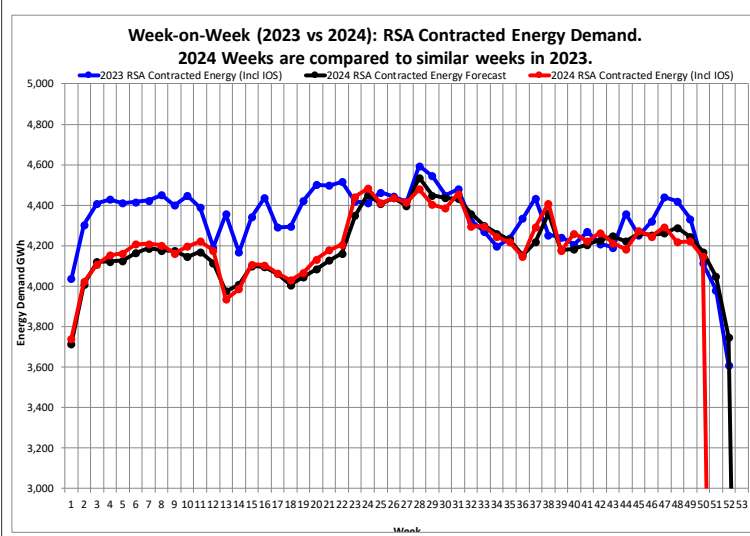
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual Residual Energy Demand Statistics			
Year	01 Jan to 15 Dec Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	212,292	220,936	GWh
2020	199,749	208,150	GWh
2021	203,766	211,957	GWh
2022	202,975	211,134	GWh
2023	199,357	207,190	GWh
2024 (YTD)	193,379		GWh

Week-on-Week RSA Contracted Energy Demand

[2024 weeks compared to similar 2023 weeks]



Week 50 : RSA Contracted Energy Demand Statistics		
Energy Demand	4,147	GWh
Week-on-Week Growth	0.83	%
Year-on-Year Growth (Year-to-Date) Annual	-3.15	%

Note:

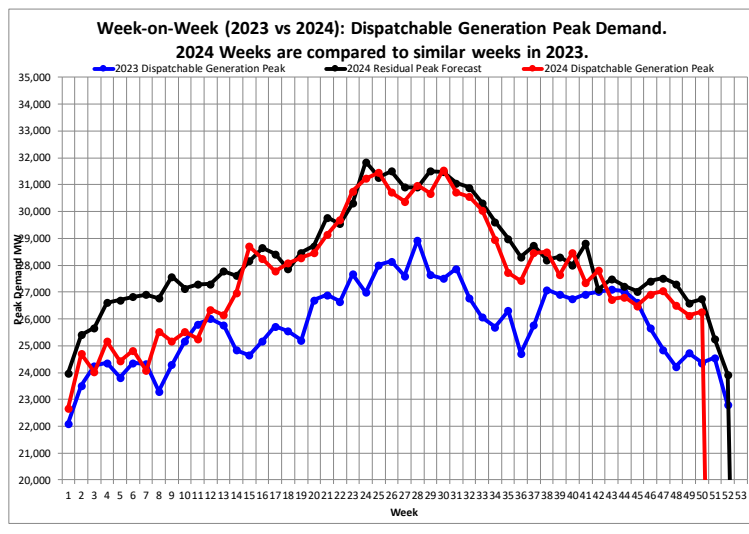
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

Annual RSA Contracted Energy Demand Statistics			
Year	01 Jan to 15 Dec Energy	Annual Energy (01 Jan to 31 Dec)	Unit
2019	223,308	232,523	GWh
2020	211,568	220,629	GWh
2021	218,191	227,165	GWh
2022	218,314	227,337	GWh
2023	217,177	225,875	GWh
2024 (YTD)	210,908		GWh

Week-on-Week Dispatchable Generation Peak Demand

[2024 weeks compared to similar 2023 weeks]



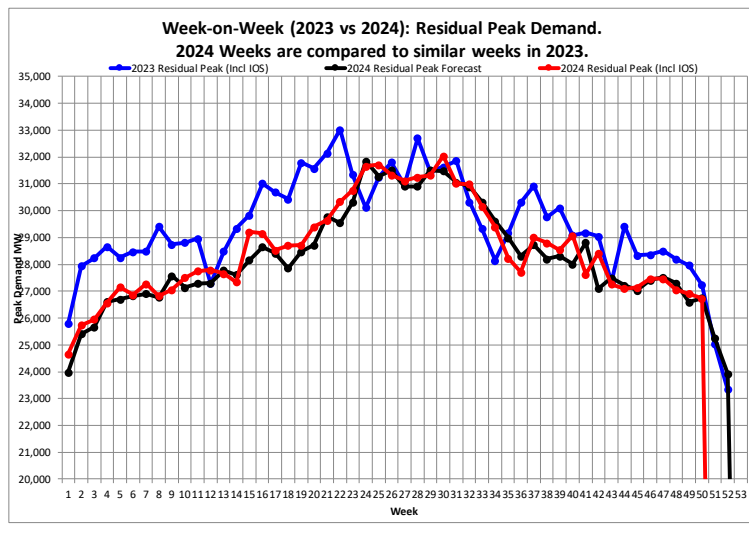
Week 50 : Dispatchable Generation Peak Demand Statistics		
Peak Demand	26,273	MW
Week-on-Week Growth	7.83	%
Year-on-Year Growth (Year-to-Date) Annual	9.02	%

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]



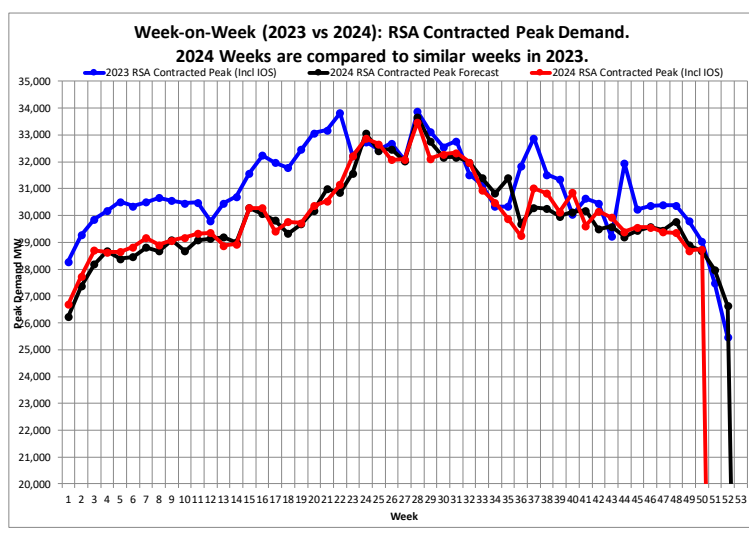
Week 50 : Residual Peak Demand Statistics		
Peak Demand	26,724	MW
Week-on-Week Growth	-1.89	%
Year-on-Year Growth (Year-to-Date) Annual	-2.94	%

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 50 : RSA Contracted Peak Demand Statistics		
Peak Demand	28,742	MW
Week-on-Week Growth	-1.01	%
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)	
	37	38	39	40	41	42	43	44	45	46	47	48	49	50	2024	2023
Energy Availability Factor (Eskom EAF)	59.27	60.62	57.97	62.14	59.27	62.53	63.13	65.20	63.37	61.50	62.46	59.05	58.10	57.75	59.99	54.69
Planned Outage Factor	13.50	13.16	15.45	14.07	12.19	11.58	13.39	14.63	13.00	14.57	15.83	17.66	15.40	16.44	12.99	10.90
Unplanned Outage Factor	26.60	25.89	26.21	23.48	28.08	25.44	23.19	19.78	23.14	23.24	21.34	21.89	25.69	25.52	26.40	33.08
Other Outage Factor	0.63	0.33	0.37	0.31	0.46	0.45	0.29	0.39	0.49	0.69	0.37	1.40	0.81	0.29	0.62	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 (-15200 MW)	MW Likely Risk Scenario (-17200 MW)
16-Dec-24	51	27983	25258	40906	25706	8483	13000		
23-Dec-24	52	26630	23927	39546	24346	9843	13000		
30-Dec-24	1	26050	23817	41663	26463	7726	13000		
06-Jan-25	2	27671	25439	42845	27645	6544	13000		
13-Jan-25	3	28309	26076	42438	27238	6951	13000		
20-Jan-25	4	28524	26291	42438	27238	6951	13000		
27-Jan-25	5	28830	26597	42408	27208	6981	13000		
03-Feb-25	6	29019	26897	42380	27180	7009	13000		
10-Feb-25	7	29173	27051	42259	27059	7130	13000		
17-Feb-25	8	29292	27171	43192	27992	6197	13000		
24-Feb-25	9	29293	27172	42968	27768	6421	13000		
03-Mar-25	10	29267	27455	42921	27721	6468	13000		
10-Mar-25	11	29352	27540	43419	28219	5970	13000		
17-Mar-25	12	30715	28808	43259	28059	6130	13000		
24-Mar-25	13	30578	28744	43239	28039	6150	13000		
31-Mar-25	14	30504	28778	42169	26969	7220	13000		
07-Apr-25	15	30981	29254	42169	26969	7220	13000		
14-Apr-25	16	31342	29616	42744	27544	6645	13000		
21-Apr-25	17	32093	30366	43991	28791	5398	13000		
28-Apr-25	18	31446	29719	44466	29266	4923	13000		
05-May-25	19	32738	31338	44851	29651	4538	13000		
12-May-25	20	33277	31878	44881	29681	4508	13000		
19-May-25	21	34328	32929	45837	30637	3552	13000		
26-May-25	22	34432	33033	46027	30827	3362	13000		
02-Jun-25	23	32403	31205	44787	29587	4602	13000		
09-Jun-25	24	32620	31422	44138	28938	5251	13000		
16-Jun-25	25	32560	31362	45060	29860	4329	13000		
23-Jun-25	26	32971	31773	45812	30612	3577	13000		
30-Jun-25	27	33174	31742	45960	30760	3429	13000		
07-Jul-25	28	33039	31607	44665	29465	4724	13000		
14-Jul-25	29	33049	31617	44932	29732	4457	13000		
21-Jul-25	30	32710	31278	44497	29297	4892	13000		
28-Jul-25	31	32192	30760	44760	29560	4629	13000		
04-Aug-25	32	31900	30155	43940	28740	5449	13000		
11-Aug-25	33	31384	29639	43490	28290	5899	13000		
18-Aug-25	34	30763	29019	43614	28414	5775	13000		
25-Aug-25	35	30331	28628	42974	27774	6415	13000		
01-Sep-25	36	31273	29283	43248	28048	6141	13000		
08-Sep-25	37	31382	29393	43759	28559	5630	13000		
15-Sep-25	38	31316	29327	42977	27777	6412	13000		
22-Sep-25	39	31563	29573	43342	28142	6047	13000		
29-Sep-25	40	31395	29405	42357	27157	7032	13000		
06-Oct-25	41	31010	28839	42158	26958	7231	13000		
13-Oct-25	42	30827	28656	42158	26958	7231	13000		
20-Oct-25	43	30683	28569	41698	26498	7691	13000		
27-Oct-25	44	30798	28714	42850	27650	6539	13000		
03-Nov-25	45	30633	28540	44818	29618	4571	13000		
10-Nov-25	46	30633	28540	43318	28118	6071	13000		
17-Nov-25	47	30410	28317	42598	27398	6791	13000		
24-Nov-25	48	30289	28196	43033	27833	6356	13000		
01-Dec-25	49	29891	27565	43618	28418	5771	13000		
08-Dec-25	50	30034	27708	43033	27833	6356	13000		
15-Dec-25	51	28875	26548	42458	27258	6931	13000		
22-Dec-25	52	27994	25667	44168	28968	5221	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): 13 000 MW

Reserves: OR + UA = 15 200 MW

Eskom Installed Capacity: 48 234 MW.

Installed Dispatchable Capacity: 49 389 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	6,165.2

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	2,155.7	3,102.2	5,129.8
	Max Date	15-Mar-2022 15:00	28-Nov-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
	Max Date	11-Aug-2016 14:00	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
	Max Date	07-Nov-2017 10:00	27-Oct-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
	Max Date	04-Dec-2018 16:00	03-Oct-2018 12:00	02-Oct-2018 16:00	28-Sep-2018 11:00
2019	Maximum	502.1	1,375.6	1,872.0	3,530.6
	Max Date	24-Sep-2019 11:00	19-Jan-2019 12:00	14-Dec-2019 15:00	27-Oct-2019 13:00
2020	Maximum	504.5	1,929.2	2,113.9	4,050.0
	Max Date	25-Nov-2020 12:00	25-Nov-2020 12:00	01-Dec-2020 19:00	24-Nov-2020 13:00
2021	Maximum	504.9	2,099.5	2,639.3	4,784.7
	Max Date	30-Nov-2021 16:00	24-Oct-2021 12:00	15-Dec-2021 17:00	01-Nov-2021 13:00
2022	Maximum	506.2	2,048.8	3,028.1	5,126.1
	Max Date	15-Mar-2022 15:00	20-Nov-2022 11:00	02-Dec-2022 16:00	05-Sep-2022 12:00
2023	Maximum	505.8	2,047.8	3,102.2	5,129.8
	Max Date	21-Feb-2023 13:00	12-Nov-2023 11:00	25-Aug-2023 20:00	15-Sep-2023 13:00
2024	Maximum	502.2	2,155.7	3,049.9	4,995.7
	Max Date	30-Sep-2024 15:00	28-Nov-2024 12:00	15-Feb-2024 18:00	15-Feb-2024 15:00

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	5,206,288	11,613,364	18,241,202
	Maximum				
2016	Total Energy	529,522	2,630,141	3,730,771	6,951,261
2017	Total Energy	687,703	3,324,857	5,081,023	9,198,632
2018	Total Energy	1,031,288	3,282,124	6,467,095	10,887,902
2019	Total Energy	1,557,151	3,324,989	6,624,642	11,586,945
2020	Total Energy	1,626,049	4,140,212	6,625,830	12,478,704
2021	Total Energy	1,656,017	5,069,146	8,359,224	15,208,327
2022	Total Energy	1,448,276	4,844,736	9,692,373	16,202,974
2023	Total Energy	1,375,349	5,014,845	11,613,364	18,241,202
2024	Total Energy	1,287,393	5,206,288	10,947,264	17,684,361

Maximum Difference between Consecutive Evening Peaks (MW) - based on System Operator data (subject to metering verification)		
Cal Year	Indicator	Total (Incl other REs)
All Time	Maximum	2,573
	Max Date	12-Aug-2024 to 13-Aug-2024
2016	Maximum	828
	Max Date	30-Aug-2016 to 31-Aug-2016
2017	Maximum	1,038
	Max Date	19-Jun-2017 to 20-Jun-2017
2018	Maximum	1,336
	Max Date	01-Sep-2018 to 02-Sep-2018
2019	Maximum	1,464
	Max Date	05-Jul-2019 to 06-Jul-2019
2020	Maximum	1,488
	Max Date	31-Aug-2020 to 01-Sep-2020
2021	Maximum	1,744
	Max Date	07-Aug-2021 to 08-Aug-2021
2022	Maximum	1,523
	Max Date	07-Aug-2022 to 08-Aug-2022
2023	Maximum	2,148
	Max Date	20-Apr-2023 to 21-Apr-2023
2024	Maximum	2,573
	Max Date	12-Aug-2024 to 13-Aug-2024

Maximum proportion that Renewables contributed towards actual hourly energy supplied (%) - based on System Operator data (subject to metering verification)		
Cal Year	Indicator	Total (Incl other REs)
All Time	Maximum	21.8%
	Max Date	20-Feb-2023 15:00
2016	Maximum	9.8%
	Max Date	23-Dec-2016 13:00
2017	Maximum	12.7%
	Max Date	25-Dec-2017 15:00
2018	Maximum	13.1%
	Max Date	01-Jan-2018 14:00
2019	Maximum	13.9%
	Max Date	14-Dec-2019 14:00
2020	Maximum	16.1%
	Max Date	27-Dec-2020 15:00
2021	Maximum	19.1%
	Max Date	01-Nov-2021 13:00
2022	Maximum	19.3%
	Max Date	05-Sep-2022 12:00
2023	Maximum	21.8%
	Max Date	20-Feb-2023 15:00
2024	Maximum	19.8%
	Max Date	15-Feb-2024 15:00

Estimated Rooftop PV

Maximum/Installed Rooftop PV (MW):	Eastern Cape	Free State	Gauteng	KwaZulu-Natal	Limpopo	Mpumalanga	Northern Cape	North-West	Western Cape	Total
Nov-24	368.2	343.1	1,798.80	810.9	413.3	704.9	334.9	681.2	710.1	6,165.20
Oct-24	368.2	343.1	1,798.80	810.9	413.3	704.9	334.9	681.2	710.1	6,165.20
Sep-24	368.2	319.2	1,798.80	810.9	413.3	704.9	334.9	681.2	710.1	6,141.40
Aug-24	368.2	319.2	1,798.80	810.9	413.3	516.1	334.9	681.2	710.1	5,952.60
Jul-24	368.2	319.2	1,798.80	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	1503.7	810.9	413.3	516.1	208.4	669.3	642.4	5,439.90
Feb-24	368.2	307.7	1503.7	810.9	413.3	516.1	208.4	669.3	642.4	5,439.90
Jan-24	368.2	280.2	1503.7	810.9	413.3	516.1	208.4	669.3	642.4	5,412.30
Dec-23	368.2	280.2	1295	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.

*Rooftop PV includes ground-mounted as well as all other PV installations that do not have contracts with NTCSA.