

Weekly System Status Report – 2023 Week 9 (27/02/2023 – 05/03/2023)

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 27/Feb/2023	26,384	0	28,385	28,203	-6.5%	-6.5%	0.6%
Tue 28/Feb/2023	25,944	0	28,416	28,194	-8.0%	-8.0%	0.8%
Wed 01/Mar/2023	26,861	0	28,330	29,367	-8.5%	-8.5%	-3.5%
Thu 02/Mar/2023	27,311	0	28,245	28,174	-3.1%	-3.1%	0.3%
Fri 03/Mar/2023	26,392	0	27,111	27,504	-4.0%	-4.0%	-1.4%
Sat 04/Mar/2023	26,925	0	26,778	26,293	2.4%	2.4%	1.8%
Sun 05/Mar/2023	26,087	0	26,301	26,002	0.3%	0.3%	1.1%

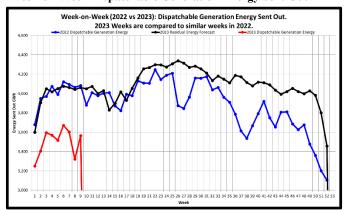
Date	Total Available Generation Incl Renewables (MW)	Non-commercial Generation (MW)	RSA Contracted Load Forecast (MW)	Actual RSA Contracted Demand (MW) Incl IOS	Operating Reserve Margin (Excl Non- Commercial Units)	Operating Reserve Margin (Incl Non- Commercial Units)	Forecast vs. Actual (RSA Contracted Demand)
Mon 27/Feb/2023	28,722	0	30,649	30,541	-6.0%	-6.0%	0.4%
Tue 28/Feb/2023	28,038	0	30,442	30,288	-7.4%	-7.4%	0.5%
Wed 01/Mar/2023	27,787	0	30,271	30,293	-8.3%	-8.3%	-0.1%
Thu 02/Mar/2023	29,470	0	30,046	30,333	-2.8%	-2.8%	-0.9%
Fri 03/Mar/2023	27,867	0	28,899	28,979	-3.8%	-3.8%	-0.3%
Sat 04/Mar/2023	28,659	0	27,936	28,027	2.3%	2.3%	-0.3%
Sun 05/Mar/2023	28,393	0	28,478	28,308	0.3%	0.3%	0.6%

Notes:

- 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) = 49 191 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



[2023 weeks compared to similar 2022 weeks]

Week 9 : Dispatchable Generation Energy Sent Out Statistics					
Energy Sent Out	3,564	GWh			
Week-on-Week Growth	-12.73	%			
Year-on-Year Growth (Year-to-Date) Annual	-12.56	%			

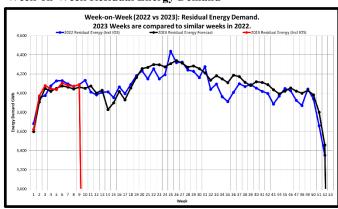
Note:

2023 Weeks are compared to similar weeks in 2022.

(2023 week 1 ~ 2022 week 1)

Annual Dispatchable Generation Energy Sent Out Statistics				
Year	01 Jan to 05 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit	
2018	38,607	224,202	GWh	
2019	38,038	219,575	GWh	
2020	38,014	206,725	GWh	
2021	35,914	210,022	GWh	
2022	36,410	202,846	GWh	
2023 (YTD)	31,938		GWh	

Week-on-Week Residual Energy Demand



[2023 weeks compared to similar 2022 weeks]

Week 9 : Residual Energy Demand Statistics (Incl IOS)					
Energy Demand	4,088	GWh			
Week-on-Week Growth	-0.04	%			
Year-on-Year Growth (Year-to-Date) Annual	-0.26	%			

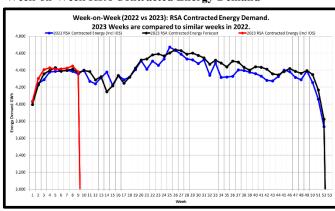
Note:

2023 Weeks are compared to similar weeks in 2022.

(2023 week 1 ~ 2022 week 1)

Annual Residual Energy Demand Statistics (Incl IOS)				
Year	01 Jan to 05 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit	
2018	38,627	224,594	GWh	
2019	38,249	220,937	GWh	
2020	38,605	208,151	GWh	
2021	36,209	211,958	GWh	
2022	36,582	211,133	GWh	
2023 (YTD)	36 571		GWh	

Week-on-Week RSA Contracted Energy Demand



[2023 weeks compared to similar 2022 weeks]

Week 9 : RSA Contracted Energy Demand Statistics (Incl IOS)					
Energy Demand	4,381	GWh			
Week-on-Week Growth	0.57	%			
Year-on-Year Growth (Year-to-Date) Annual 1.04 %					

Note:

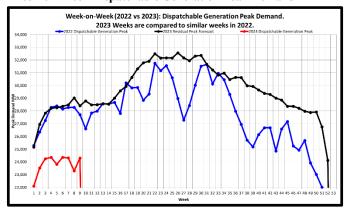
2023 Weeks are compared to similar weeks in 2022.

(2023 week 1 ~ 2022 week 1)

Annual RSA Contracted Energy Demand Statistics (Incl IOS)					
Year	01 Jan to 05 Mar Energy	Annual Energy (01 Jan to 31 Dec)	Unit		
2018	40,697	235,482	GWh		
2019	40,454	232,524	GWh		
2020	40,750	220,630	GWh		
2021	38,828	227,166	GWh		
2022	39,315	227,336	GWh		
2023 (YTD)	39,784		GWh		



Week-on-Week Dispatchable Generation Peak Demand



[2023 weeks compared to similar 2022 weeks]

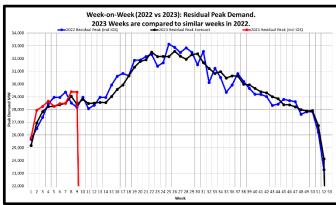
Week 9 : Dispatchable Generation Peak Demand Statistics					
Peak Demand	24,299	MW			
Week-on-Week Growth	-12.34	%			
Year-on-Year Growth (Year-to-Date) Annual	-14.21	%			

Note:

2023 Weeks are compared to similar weeks in 2022. (2023 week 1 ~ 2022 week 1)

	Annual Dispatchable Generation Peak Demand Statistics					
Year	Peak Date	Annual Peak	Unit			
2018	Mon 16-Jul-2018	34,256	MW			
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 (YTD)	Mon 23-Jan-2023	24,362	MW			

Week-on-Week Residual Peak Demand



[2023 weeks compared to similar 2022 weeks]

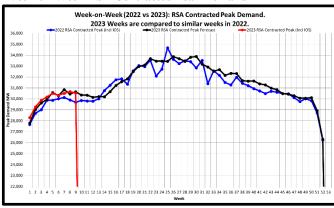
Week 9 : Residual Peak Demand Statistics (Incl IOS)					
Peak Demand 29,367 MW					
Week-on-Week Growth	4.25	%			
Year-on-Year Growth (Year-to-Date) Annual	0.08	%			

2023 Weeks are compared to similar weeks in 2022.

(2023 week 1 ~ 2022 week 1)

Annual Residual Peak Demand Statistics (Incl IOS)					
Year	Peak Date	Annual Peak	Unit		
2018	Tue 29-May-2018	34,907	MW		
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 (YTD)	Tue 21-Feb-2023	29,398	MW		

Week-on-Week RSA Contracted Peak Demand



[2023 weeks compared to similar 2022 weeks]

Week 9 : RSA Contracted Peak Demand Statis	tics (Incl IC	OS)
Peak Demand	30,541	MW
Week-on-Week Growth	2.85	%
Year-on-Year Growth (Year-to-Date) Annual	1.77	%

Note:

2023 Weeks are compared to similar weeks in 2022.

(2023 week 1 ~ 2022 week 1)

Annual RSA Contracted Peak Demand Statistics (Incl IOS)						
Year	Peak Date	Annual Peak	Unit			
2018	Tue 29-May-2018	35,345	MW			
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 (YTD)	Tue 21-Feb-2023	30,666	MW			



Weekly Generation Availability

		Week									Annual (Jan - Dec)					
	48	49	50	51	52	1	2	3	4	5	6	7	8	9	2023	2022
Energy Availability Factor (Eskom EAF)	54.36	51.14	50.46	49.89	48.47	49.17	50.78	52.50	52.33	53.27	54.46	52.37	50.74	53.19	52.06	58.01
Planned Outage Factor	9.13	11.53	15.39	16.67	17.09	13.97	12.75	13.07	13.61	10.75	10.89	9.08	9.57	10.14	11.55	10.62
Unplanned Outage Factor	34.69	35.68	32.92	32.20	33.15	34.64	34.03	31.94	32.25	34.82	33.25	35.66	34.94	35.67	34.19	29.85
Other Outage Factor	1.82	1.65	1.23	1.24	1.29	2.22	2.44	2.49	1.81	1.16	1.40	2.89	4.75	1.00	2.20	1.52

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

10 11 12 13 14 15 16 17 18 19 20	MW RSA Contracted Forecast 30349 3046 30147 30212 30189 30663 31228 31577 31824	MW Residual Forecast 28793 28479 28499 28565 28542 29017 29581	MW Available Dispatchable Capacity 43470 43916 43981	MW Available Capacity (Less OR and UA) 28270 28716 28781	MW Planned Maintenance 5721 5275	Unplanned Outage Assumption (UA)	MW Planned Risk Level (-15200 MW)	MW Likely Risk Senario (-16700 MW)
10 11 12 13 14 15 16 17 18 19	Contracted Forecast 30349 30346 30147 30212 30189 30663 31228 31577	28793 28479 28499 28565 28542 29017	Dispatchable Capacity 43470 43916 43981 43981	Capacity (Less OR and UA) 28270 28716	Maintenance 5721	Outage Assumption (UA)	Risk Level	Senario
11 12 13 14 15 16 17 18	30349 30346 30147 30212 30189 30663 31228 31577	28479 28499 28565 28542 29017	43470 43916 43981 43981	28270 28716		13000	(-15200 MW)	(-16700 MW)
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13 14 15 16 17 18 19	30212 30189 30663 31228 31577	28565 28542 29017	43981	28781		13000		
14 15 16 17 18 19	30189 30663 31228 31577	28542 29017			5210	13000		
15 16 17 18 19	30663 31228 31577	29017		28781	5210	13000		
16 17 18 19	31228 31577		42526	27326	6665	13000		
17 18 19	31577	20591	43246	28046	5945	13000		
18 19			43981	28781	5210	13000		
19	21024	29931	44516	29316	4675	13000		
	31024	30642	45056	29856	4135	13000		
20	32502	31320	46427	31227	2764	13000		
	32969	31787	46584	31384	2607	13000		
21	33092	31911	47177	31977	2014	13000		
22	33681	32499	47377	32177	1814	13000		
23	33444	32163	47229	32029	1962	13000		
24	33454	32173	47377	32177	1814	13000		
25	33441	32160	47377	32177	1814	13000		
26	33853	32572	47100	31900	2091	13000		
27	33675	32184	46503	31303	2688	13000		
28	33441	31950	46753	31553	2438	13000		
29	33806	32315	46506	31306	2685	13000		
30	33869	32378	46158	30958	3033	13000		
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45	30480	28381	43100	27900	6091	13000		
46	30439	28371	42359	27159	6832	13000		
47	30288	28220	42756	27556	6435	13000		
48	30059	27991	42355	27155	6836	13000		
49	30063	27880	43132	27932	6059	13000		
50								
51								
52								
1	27954	25810	41203	26003	7988	13000		
2	29548	27404	41303	26103	7888	13000		
3	30300	28156	42362	27162	6829	13000		
4	30273	28129	43230	28030	5961	13000		
5	30490	28346	43512	28312	5679	13000		
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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

Operating Reserve (OR) from Generation: 2 200 MW Unplanned Outage Assumption (UA): 13 000

Reserves: OR + UA = 15 200 MW Eskom Installed Capacity: 48 186 MW.

Installed Dispatchable Capacity: 49 191 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 Definitively 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 - 2022 to 2026. (Published 30 October 2021).

 $\underline{https://www.eskom.co.za/wp-content/uploads/2021/11/MediumTermSystemAdequacyOutlook2022-2026.pdf}$

or

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				
Total (Incl other REs)	6,280.2				

Maxin	num Contril	oution (MW) - based	on System Operator o	lata (subject to mete	ring verification)
Cal Year	Indicator	CSP	PV	Wind (Eskom+IPP)	Total (Incl other REs)
All Time	Maximum	506.2	2,099.5	3,028.1	5,126.1
All fille	Max Date	15-Mar-2022 15:00	24-Oct-2021 12:00	02-Dec-2022 16:00	05-Sep-2022 12:00
2016	Maximum	200.9	1,350.5	1,229.8	2,576.3
2010	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
2017	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
2010	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
2019	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
2020	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
2021	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
2022	Max Date	15-Mar-2022 15:00	20-Nov-2022 11:00	02-Dec-2022 16:00	05-Sep-2022 12:00
2022	Maximum	505.8	2,044.1	2,829.4	4,887.8
2023	Max Date	21-Feb-2023 13:00	21-Feb-2023 12:00	20-Feb-2023 17:00	20-Feb-2023 15:00

Annual E	nergy Conti	ribution (MWh) - base	ed on System Operato	or data (subject to me	etering verification)
Cal Year	Indicator	CSP	PV	Wind (Eskom+IPP)	Total (Incl other REs)
All Time Maximum	Annual Energy	1,656,017	5,069,146	9,692,373	16,202,974
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	391,856	1,158,724	2,097,425	3,711,661

		between Consecutive Evening Peaks (MW) - erator data (subject to metering verification)
Cal Year	Indicator	Total (Incl other REs)
All Time	Maximum	1,832
All Time	Max Date	20-Feb-2023 to 21-Feb-2023
2016	Maximum	828
2016	Max Date	30-Aug-2016 to 31-Aug-2016
2017	Maximum	1,038
2017	Max Date	19-Jun-2017 to 20-Jun-2017
2018	Maximum	1,336
2018	Max Date	01-Sep-2018 to 02-Sep-2018
2019	Maximum	1,464
2019	Max Date	05-Jul-2019 to 06-Jul-2019
2020	Maximum	1,488
2020	Max Date	31-Aug-2020 to 01-Sep-2020
2021	Maximum	1,744
2021	Max Date	07-Aug-2021 to 08-Aug-2021
2022	Maximum	1,523
2022	Max Date	07-Aug-2022 to 08-Aug-2022
2022	Maximum	1,832
2023	Max Date	20-Feb-2023 to 21-Feb-2023

(. /	ystem Operator data (sub)	ect to metering verification
Cal Year	Indicator	Total (Incl other REs)
All Time	Maximum	21.8%
All fille	Max Date	20-Feb-2023 15:00
2016	Maximum	9.8%
2016	Max Date	23-Dec-2016 13:00
2017	Maximum	12.7%
2017	Max Date	25-Dec-2017 15:00
2018	Maximum	13.1%
2018	Max Date	01-Jan-2018 14:00
2019	Maximum	13.9%
2019	Max Date	14-Dec-2019 14:00
2020	Maximum	16.1%
2020	Max Date	27-Dec-2020 15:00
2021	Maximum	19.1%
2021	Max Date	01-Nov-2021 13:00
2022	Maximum	19.3%
2022	Max Date	05-Sep-2022 12:00
2000	Maximum	21.8%
2023	Max Date	20-Feb-2023 15:00