

## Weekly System Status Report – 2024 Week 22 (27/05/2024 – 02/06/2024)

### 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 27/May/2024 | 33,111                                 | 726                            | 29,545                      | 30,365                               | 9.0%                                                 | 11.4%                                                | -2.7%                                 |
| Tue 28/May/2024 | 33,254                                 | 736                            | 29,291                      | 29,816                               | 11.5%                                                | 14.0%                                                | -1.8%                                 |
| Wed 29/May/2024 | 35,447                                 | 724                            | 28,039                      | 27,391                               | 29.4%                                                | 32.1%                                                | 2.4%                                  |
| Thu 30/May/2024 | 32,123                                 | 613                            | 29,082                      | 28,389                               | 13.2%                                                | 15.3%                                                | 2.4%                                  |
| Fri 31/May/2024 | 32,714                                 | 715                            | 28,503                      | 29,074                               | 12.5%                                                | 15.0%                                                | -2.0%                                 |
| Sat 01/Jun/2024 | 32,191                                 | 721                            | 27,367                      | 27,150                               | 18.6%                                                | 21.2%                                                | 0.8%                                  |
| Sun 02/Jun/2024 | 31,128                                 | 723                            | 27,893                      | 27,660                               | 12.5%                                                | 15.2%                                                | 0.8%                                  |

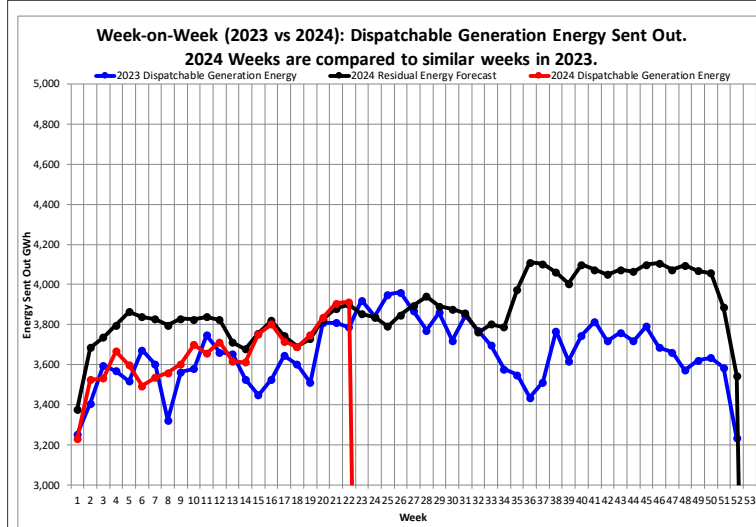
| Date            | Total Available Generation Incl Renewables (MW) | Non-commercial Generation (MW) | RSA Contracted Load Forecast (MW) | Actual RSA Contracted Demand (MW) Incl IOS | Operating Reserve Margin (Excl Non-Commercial Units) | Operating Reserve Margin (Incl Non-Commercial Units) | Forecast vs. Actual (RSA Contracted Demand) |
|-----------------|-------------------------------------------------|--------------------------------|-----------------------------------|--------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------|
| Mon 27/May/2024 | 33,682                                          | 726                            | 30,551                            | 30,936                                     | 8.9%                                                 | 11.2%                                                | -1.2%                                       |
| Tue 28/May/2024 | 33,782                                          | 736                            | 30,106                            | 30,345                                     | 11.3%                                                | 13.8%                                                | -0.8%                                       |
| Wed 29/May/2024 | 37,033                                          | 724                            | 29,251                            | 28,977                                     | 27.8%                                                | 30.3%                                                | 0.9%                                        |
| Thu 30/May/2024 | 34,643                                          | 613                            | 31,190                            | 30,910                                     | 12.1%                                                | 14.1%                                                | 0.9%                                        |
| Fri 31/May/2024 | 33,442                                          | 715                            | 29,796                            | 29,802                                     | 12.2%                                                | 14.6%                                                | 0.0%                                        |
| Sat 01/Jun/2024 | 33,710                                          | 721                            | 28,603                            | 28,670                                     | 17.6%                                                | 20.1%                                                | -0.2%                                       |
| Sun 02/Jun/2024 | 33,187                                          | 724                            | 29,841                            | 29,570                                     | 12.2%                                                | 14.7%                                                | 0.9%                                        |

### 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

[2024 weeks compared to similar 2023 weeks]



| Week 22 : Dispatchable Generation Energy Sent Out Statistics |       |     |
|--------------------------------------------------------------|-------|-----|
| Energy Sent Out                                              | 3,912 | GWh |
| Week-on-Week Growth                                          | 3.31  | %   |
| Year-on-Year Growth (Year-to-Date) Annual                    | 2.02  | %   |

**Note:**

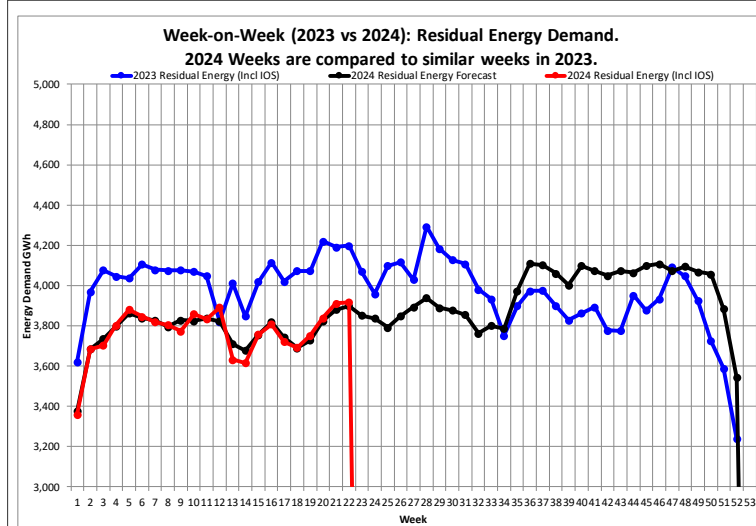
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

| Annual Dispatchable Generation Energy Sent Out Statistics |                         |                                  |      |
|-----------------------------------------------------------|-------------------------|----------------------------------|------|
| Year                                                      | 01 Jan to 02 Jun Energy | Annual Energy (01 Jan to 31 Dec) | Unit |
| 2019                                                      | 91,914                  | 219,574                          | GWh  |
| 2020                                                      | 84,227                  | 206,725                          | GWh  |
| 2021                                                      | 87,854                  | 210,021                          | GWh  |
| 2022                                                      | 87,349                  | 202,847                          | GWh  |
| 2023                                                      | 78,191                  | 190,434                          | GWh  |
| 2024 (YTD)                                                | 80,397                  |                                  | GWh  |

## Week-on-Week Residual Energy Demand

[2024 weeks compared to similar 2023 weeks]



| Week 22 : Residual Energy Demand Statistics |       |     |
|---------------------------------------------|-------|-----|
| Energy Demand                               | 3,918 | GWh |
| Week-on-Week Growth                         | -6.70 | %   |
| Year-on-Year Growth (Year-to-Date) Annual   | -6.64 | %   |

**Note:**

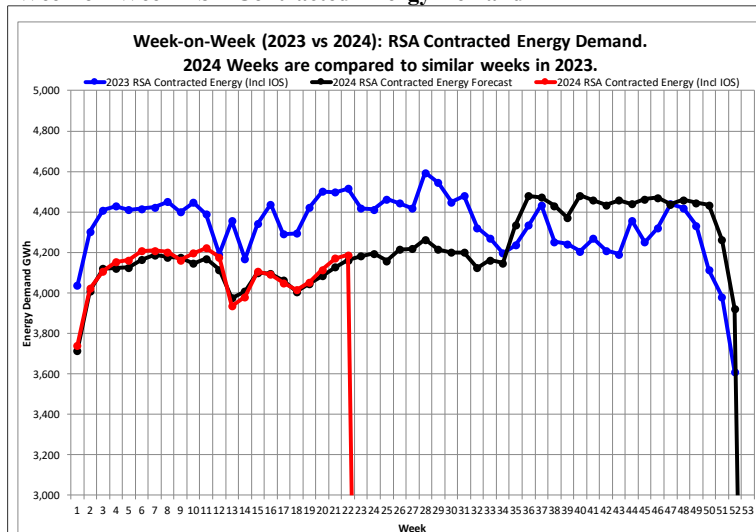
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

| Annual Residual Energy Demand Statistics |                         |                                  |      |
|------------------------------------------|-------------------------|----------------------------------|------|
| Year                                     | 01 Jan to 02 Jun Energy | Annual Energy (01 Jan to 31 Dec) | Unit |
| 2019                                     | 92,601                  | 220,936                          | GWh  |
| 2020                                     | 85,094                  | 208,150                          | GWh  |
| 2021                                     | 88,623                  | 211,957                          | GWh  |
| 2022                                     | 88,452                  | 211,134                          | GWh  |
| 2023                                     | 88,191                  | 207,190                          | GWh  |
| 2024 (YTD)                               | 82,908                  |                                  | GWh  |

## Week-on-Week RSA Contracted Energy Demand

[2024 weeks compared to similar 2023 weeks]



| Week 22 : RSA Contracted Energy Demand Statistics |       |     |
|---------------------------------------------------|-------|-----|
| Energy Demand                                     | 4,187 | GWh |
| Week-on-Week Growth                               | -7.28 | %   |
| Year-on-Year Growth (Year-to-Date) Annual         | -6.10 | %   |

**Note:**

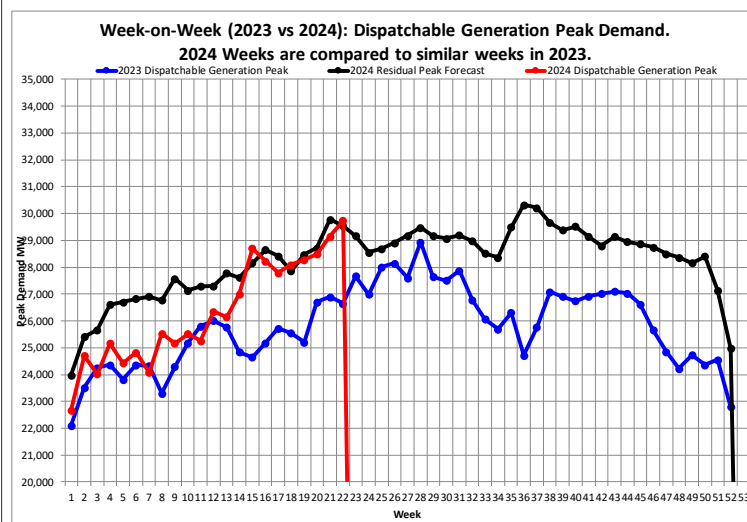
2024 Weeks are compared to similar weeks in 2023.

(2024 week 1 ~ 2023 week 1)

| Annual RSA Contracted Energy Demand Statistics |                         |                                  |      |
|------------------------------------------------|-------------------------|----------------------------------|------|
| Year                                           | 01 Jan to 02 Jun Energy | Annual Energy (01 Jan to 31 Dec) | Unit |
| 2019                                           | 97,248                  | 232,523                          | GWh  |
| 2020                                           | 89,753                  | 220,629                          | GWh  |
| 2021                                           | 94,407                  | 227,165                          | GWh  |
| 2022                                           | 94,651                  | 227,337                          | GWh  |
| 2023                                           | 95,448                  | 225,875                          | GWh  |
| 2024 (YTD)                                     | 90,272                  |                                  | GWh  |

## Week-on-Week Dispatchable Generation Peak Demand

[2024 weeks compared to similar 2023 weeks]



| Week 22 : Dispatchable Generation Peak Demand Statistics |        |    |
|----------------------------------------------------------|--------|----|
| Peak Demand                                              | 29,732 | MW |
| Week-on-Week Growth                                      | 11.59  | %  |
| Year-on-Year Growth (Year-to-Date) Annual                | 10.55  | %  |

**Note:**

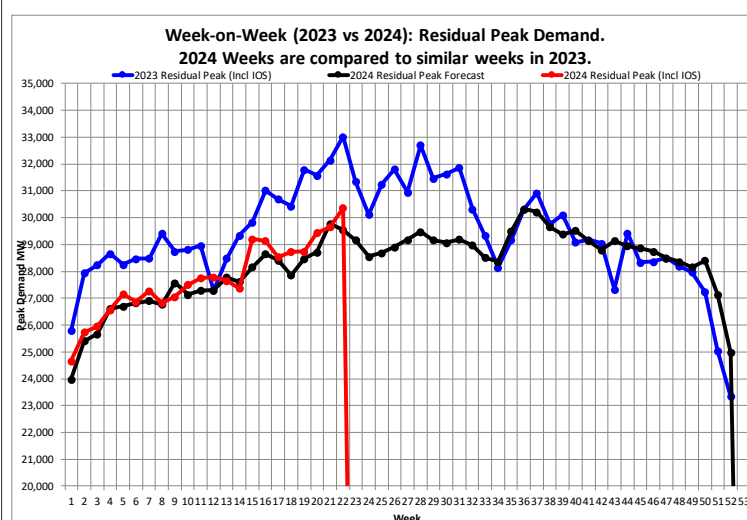
2024 Weeks are compared to similar weeks in 2023.

(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 27-May-2024 | 29,732      | MW   |

## Week-on-Week Residual Peak Demand

[2024 weeks compared to similar 2023 weeks]



| Week 22 : Residual Peak Demand Statistics |        |    |
|-------------------------------------------|--------|----|
| Peak Demand                               | 30,365 | MW |
| Week-on-Week Growth                       | -8.03  | %  |
| Year-on-Year Growth (Year-to-Date) Annual | -8.03  | %  |

**Note:**

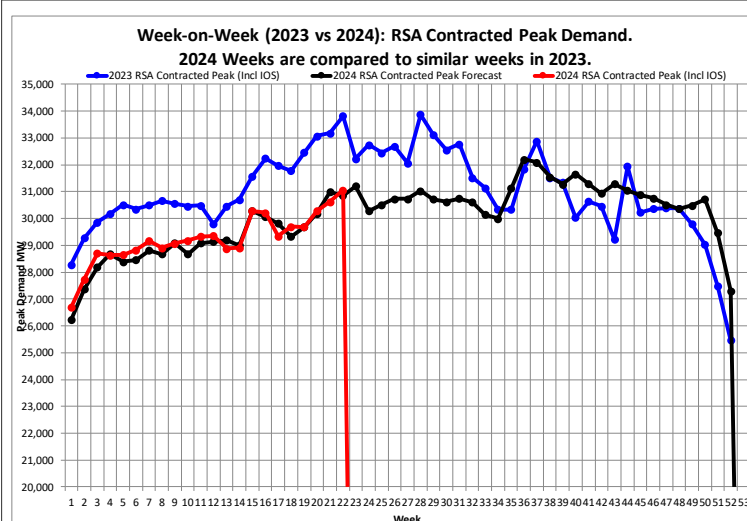
2024 Weeks are compared to similar weeks in 2023.

(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 27-May-2024 | 30,365      | MW   |

## Week-on-Week RSA Contracted Peak Demand

[2024 weeks compared to similar 2023 weeks]



| Week 22 : RSA Contracted Peak Demand Statistics |        |    |
|-------------------------------------------------|--------|----|
| Peak Demand                                     | 31,060 | MW |
| Week-on-Week Growth                             | -8.15  | %  |
| Year-on-Year Growth (Year-to-Date) Annual       | -8.15  | %  |

**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)                                   | Thu 30-May-2024 | 31,060      | MW   |

## Weekly Generation Availability

|                                        | Week  |       |       |       |       |       |       |       |       |       |       |       |       |       | Annual (Jan - Dec) |       |
|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|
|                                        | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 2024               | 2023  |
| Energy Availability Factor (Eskom EAF) | 53.83 | 53.58 | 53.63 | 53.89 | 56.76 | 56.99 | 58.41 | 57.91 | 58.55 | 62.02 | 65.18 | 64.84 | 61.35 | 64.30 | 56.05              | 54.69 |
| Planned Outage Factor                  | 16.07 | 13.19 | 14.44 | 13.91 | 13.02 | 11.23 | 12.11 | 12.00 | 10.46 | 12.01 | 8.57  | 8.48  | 9.09  | 9.17  | 13.68              | 10.90 |
| Unplanned Outage Factor                | 29.10 | 32.74 | 31.47 | 31.80 | 29.87 | 31.35 | 28.97 | 29.45 | 30.62 | 25.66 | 25.98 | 25.89 | 29.03 | 26.13 | 29.54              | 33.08 |
| Other Outage Factor                    | 1.00  | 0.49  | 0.46  | 0.40  | 0.35  | 0.43  | 0.51  | 0.64  | 0.37  | 0.31  | 0.27  | 0.79  | 0.53  | 0.40  | 0.73               | 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<br>RSA<br>Contracted<br>Forecast | MW<br>Residual<br>Forecast | MW<br>Available<br>Dispatchable<br>Capacity | MW<br>Available<br>Capacity (Less<br>OR and UA) | MW<br>Planned<br>Maintenance | MW<br>Unplanned<br>Outage<br>Assumption (UA) | MW<br>Planned<br>Risk Level<br>(-16200 MW) | MW<br>Likely Risk<br>Scenario<br>(-18200 MW) |
|------------|------|-------------------------------------|----------------------------|---------------------------------------------|-------------------------------------------------|------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|
| 03-Jun-24  | 23   | 31216                               | 29172                      | 43314                                       | 27114                                           | 5877                         | 14000                                        |                                            |                                              |
| 10-Jun-24  | 24   | 30286                               | 28553                      | 44676                                       | 28476                                           | 4515                         | 14000                                        |                                            |                                              |
| 17-Jun-24  | 25   | 30517                               | 28697                      | 45148                                       | 28948                                           | 4043                         | 14000                                        |                                            |                                              |
| 24-Jun-24  | 26   | 30733                               | 28913                      | 45133                                       | 28933                                           | 4058                         | 14000                                        |                                            |                                              |
| 01-Jul-24  | 27   | 30736                               | 29180                      | 46348                                       | 30148                                           | 2843                         | 14000                                        |                                            |                                              |
| 08-Jul-24  | 28   | 31031                               | 29475                      | 46593                                       | 30393                                           | 2598                         | 14000                                        |                                            |                                              |
| 15-Jul-24  | 29   | 30721                               | 29166                      | 46611                                       | 30411                                           | 2580                         | 14000                                        |                                            |                                              |
| 22-Jul-24  | 30   | 30621                               | 29065                      | 46335                                       | 30135                                           | 2856                         | 14000                                        |                                            |                                              |
| 29-Jul-24  | 31   | 30746                               | 29190                      | 46385                                       | 30185                                           | 2806                         | 14000                                        |                                            |                                              |
| 05-Aug-24  | 32   | 30607                               | 28974                      | 45662                                       | 29462                                           | 3529                         | 14000                                        |                                            |                                              |
| 12-Aug-24  | 33   | 30151                               | 28519                      | 45810                                       | 29610                                           | 3381                         | 14000                                        |                                            |                                              |
| 19-Aug-24  | 34   | 29999                               | 28367                      | 46098                                       | 29898                                           | 3093                         | 14000                                        |                                            |                                              |
| 26-Aug-24  | 35   | 31122                               | 29489                      | 45996                                       | 29796                                           | 3195                         | 14000                                        |                                            |                                              |
| 02-Sep-24  | 36   | 32206                               | 30318                      | 45091                                       | 28891                                           | 4100                         | 14000                                        |                                            |                                              |
| 09-Sep-24  | 37   | 32100                               | 30213                      | 44498                                       | 28298                                           | 4693                         | 14000                                        |                                            |                                              |
| 16-Sep-24  | 38   | 31551                               | 29663                      | 44568                                       | 28368                                           | 4623                         | 14000                                        |                                            |                                              |
| 23-Sep-24  | 39   | 31272                               | 29384                      | 43445                                       | 27245                                           | 5746                         | 14000                                        |                                            |                                              |
| 30-Sep-24  | 40   | 31663                               | 29516                      | 44431                                       | 28231                                           | 4760                         | 14000                                        |                                            |                                              |
| 07-Oct-24  | 41   | 31291                               | 29143                      | 43378                                       | 27178                                           | 5813                         | 14000                                        |                                            |                                              |
| 14-Oct-24  | 42   | 30935                               | 28796                      | 43458                                       | 27258                                           | 5733                         | 14000                                        |                                            |                                              |
| 21-Oct-24  | 43   | 31288                               | 29140                      | 43953                                       | 27753                                           | 5238                         | 14000                                        |                                            |                                              |
| 28-Oct-24  | 44   | 31043                               | 28945                      | 43118                                       | 26918                                           | 6073                         | 14000                                        |                                            |                                              |
| 04-Nov-24  | 45   | 30877                               | 28668                      | 43212                                       | 27012                                           | 5979                         | 14000                                        |                                            |                                              |
| 11-Nov-24  | 46   | 30756                               | 28747                      | 43378                                       | 27178                                           | 5813                         | 14000                                        |                                            |                                              |
| 18-Nov-24  | 47   | 30513                               | 28504                      | 43585                                       | 27385                                           | 5606                         | 14000                                        |                                            |                                              |
| 25-Nov-24  | 48   | 30369                               | 28360                      | 43585                                       | 27385                                           | 5606                         | 14000                                        |                                            |                                              |
| 02-Dec-24  | 49   | 30491                               | 28165                      | 44060                                       | 27860                                           | 5131                         | 14000                                        |                                            |                                              |
| 09-Dec-24  | 50   | 30725                               | 28398                      | 44060                                       | 27860                                           | 5131                         | 14000                                        |                                            |                                              |
| 16-Dec-24  | 51   | 29472                               | 27145                      | 42073                                       | 25873                                           | 7118                         | 14000                                        |                                            |                                              |
| 23-Dec-24  | 52   | 27305                               | 24979                      | 40858                                       | 24658                                           | 8333                         | 14000                                        |                                            |                                              |
| 30-Dec-24  | 1    | 27003                               | 24770                      | 40708                                       | 24508                                           | 8483                         | 14000                                        |                                            |                                              |
| 06-Jan-25  | 2    | 29323                               | 27090                      | 41555                                       | 25355                                           | 7636                         | 14000                                        |                                            |                                              |
| 13-Jan-25  | 3    | 30006                               | 27773                      | 42130                                       | 25930                                           | 7061                         | 14000                                        |                                            |                                              |
| 20-Jan-25  | 4    | 30111                               | 27878                      | 42298                                       | 26098                                           | 6893                         | 14000                                        |                                            |                                              |
| 27-Jan-25  | 5    | 30338                               | 28105                      | 42288                                       | 26088                                           | 6903                         | 14000                                        |                                            |                                              |
| 03-Feb-25  | 6    | 30275                               | 28153                      | 43284                                       | 27084                                           | 5907                         | 14000                                        |                                            |                                              |
| 10-Feb-25  | 7    | 30453                               | 28331                      | 43284                                       | 27084                                           | 5907                         | 14000                                        |                                            |                                              |
| 17-Feb-25  | 8    | 30607                               | 28486                      | 42678                                       | 26478                                           | 6513                         | 14000                                        |                                            |                                              |
| 24-Feb-25  | 9    | 30504                               | 28382                      | 43973                                       | 27773                                           | 5218                         | 14000                                        |                                            |                                              |
| 03-Mar-25  | 10   | 30359                               | 28547                      | 43253                                       | 27053                                           | 5938                         | 14000                                        |                                            |                                              |
| 10-Mar-25  | 11   | 30779                               | 28967                      | 43253                                       | 27053                                           | 5938                         | 14000                                        |                                            |                                              |
| 17-Mar-25  | 12   | 30715                               | 28808                      | 43158                                       | 26958                                           | 6033                         | 14000                                        |                                            |                                              |
| 24-Mar-25  | 13   | 30578                               | 28744                      | 42733                                       | 26533                                           | 6458                         | 14000                                        |                                            |                                              |
| 31-Mar-25  | 14   | 30504                               | 28778                      | 42686                                       | 26486                                           | 6505                         | 14000                                        |                                            |                                              |
| 07-Apr-25  | 15   | 30981                               | 29254                      | 42876                                       | 26676                                           | 6315                         | 14000                                        |                                            |                                              |
| 14-Apr-25  | 16   | 31342                               | 29616                      | 43596                                       | 27396                                           | 5595                         | 14000                                        |                                            |                                              |
| 21-Apr-25  | 17   | 32093                               | 30366                      | 44258                                       | 28058                                           | 4933                         | 14000                                        |                                            |                                              |
| 28-Apr-25  | 18   | 31446                               | 29719                      | 44733                                       | 28533                                           | 4458                         | 14000                                        |                                            |                                              |
| 05-May-25  | 19   | 32737                               | 31338                      | 45921                                       | 29721                                           | 3270                         | 14000                                        |                                            |                                              |
| 12-May-25  | 20   | 33277                               | 31878                      | 46111                                       | 29911                                           | 3080                         | 14000                                        |                                            |                                              |
| 19-May-25  | 21   | 34328                               | 32929                      | 45921                                       | 29721                                           | 3270                         | 14000                                        |                                            |                                              |
| 26-May-25  | 22   | 34432                               | 33033                      | 45741                                       | 29541                                           | 3450                         | 14000                                        |                                            |                                              |
| 02-Jun-25  | 23   | 33024                               | 31205                      | 45859                                       | 29659                                           | 3332                         | 14000                                        |                                            |                                              |
| 09-Jun-25  | 24   | 33241                               | 31422                      | 44477                                       | 28277                                           | 4714                         | 14000                                        |                                            |                                              |

### 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**

**Reserves: OR + UA = 16 200 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 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](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            | 5,490.0 |

| 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         | 608,349   | 2,273,340 | 4,726,590        | 7,699,133              |
| 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   | 1,835                      | 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           |
|------------------------------------|--------------|--------------|-----------------|---------------|--------------|--------------|---------------|--------------|--------------|-----------------|
| <b>Apr-24</b>                      | <b>368.2</b> | <b>319.2</b> | <b>1,503.70</b> | <b>810.9</b>  | <b>413.3</b> | <b>516.1</b> | <b>247</b>    | <b>669.3</b> | <b>642.4</b> | <b>5,490.00</b> |
| 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        | 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        | 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.