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Electricity generated (produced) in South Africa: results for July 2024

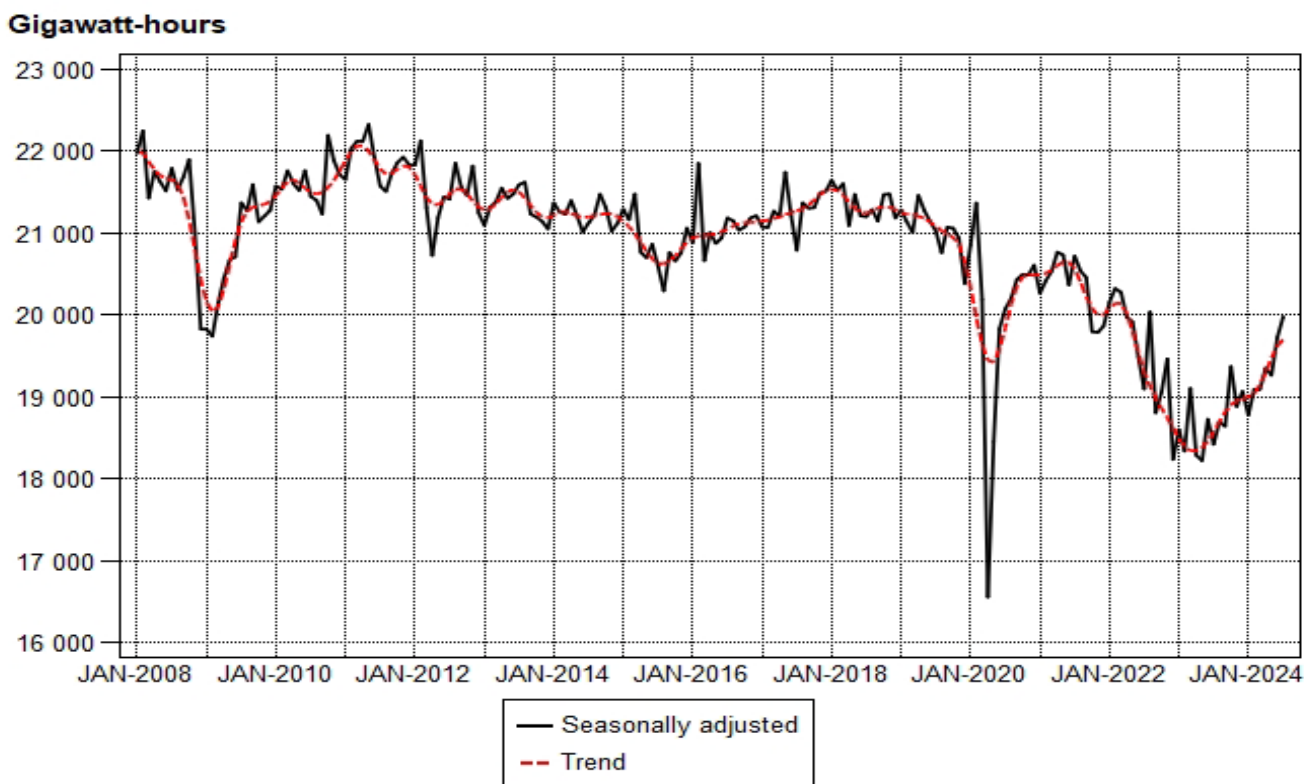
Table A – Key growth rates in the volume of electricity generated

| | Feb-24 | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 |
|--|--------|--------|--------|--------|--------|--------|
| Year-on-year % change, unadjusted | 4,2 | 0,0 | 5,7 | 5,5 | 5,4 | 8,5 |
| Month-on-month % change, seasonally adjusted | 1,7 | 0,0 | 1,4 | -0,5 | 2,4 | 1,3 |
| 3-month % change, seasonally adjusted ¹ | 0,0 | -0,7 | 1,4 | 1,4 | 2,4 | 2,5 |

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Electricity generation (production) increased by 8,5% year-on-year in July 2024. Seasonally adjusted electricity generation increased by 1,3% in July 2024 compared with June 2024. This followed month-on-month changes of 2,4% in June 2024 and -0,5% in May 2024. Seasonally adjusted electricity generation increased by 2,5% in the three months ended July 2024 compared with the previous three months.

Figure 1 – Electricity generated in South Africa



Electricity distributed (consumed) in South Africa: results for July 2024

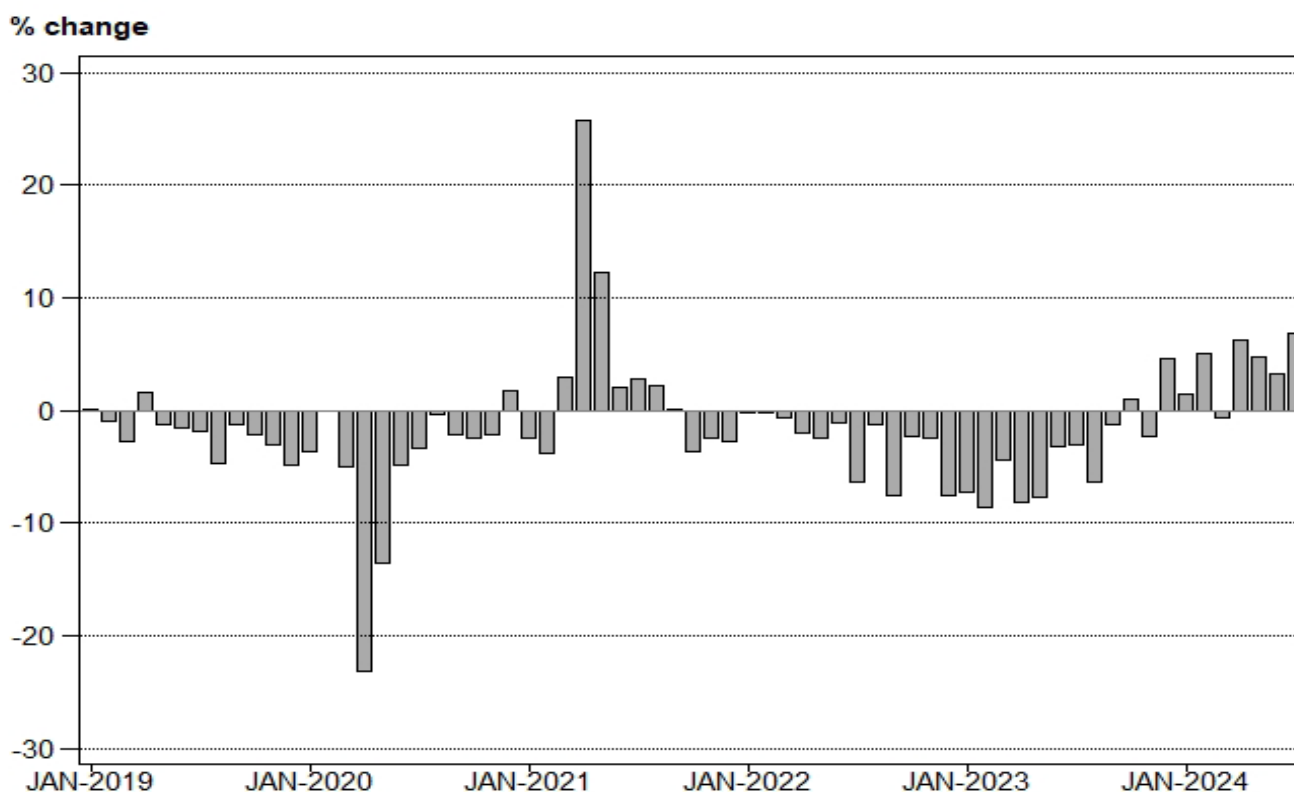
Table B – Key growth rates in the volume of electricity distributed

| | Feb-24 | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 |
|--|--------|--------|--------|--------|--------|--------|
| Year-on-year % change, unadjusted | 5,0 | -0,7 | 6,2 | 4,7 | 3,3 | 6,9 |
| Month-on-month % change, seasonally adjusted | 0,6 | -0,6 | 1,9 | -0,5 | 0,9 | 1,6 |
| 3-month % change, seasonally adjusted ¹ | 1,1 | -0,4 | 0,7 | 0,5 | 1,6 | 1,6 |

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Electricity distribution (consumption) increased by 6,9% year-on-year in July 2024. Seasonally adjusted electricity distribution increased by 1,6% month-on-month in July 2024, following month-on-month changes of 0,9% in June 2024 and -0,5% in May 2024. Seasonally adjusted electricity distribution increased by 1,6% in the three months ended July 2024 compared with the previous three months.

Figure 2 – Electricity distributed in South Africa: year-on-year percentage change



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Statistician-General

Tables

Table 1 – Index of the volume of electricity generated (Base: 2019=100)

| Month | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|--------------|--------------|-------------|-------------|-------------|-------------|-------|
| Jan | 101,5 | 99,5 | 97,1 | 93,9 | 93,0 | 85,7 | 86,4 |
| Feb | 93,1 | 91,3 | 92,2 | 88,2 | 87,9 | 79,4 | 82,7 |
| Mar | 102,5 | 99,5 | 95,5 | 97,2 | 96,2 | 90,8 | 90,8 |
| Apr | 96,8 | 98,5 | 76,1 | 95,5 | 91,9 | 84,1 | 88,9 |
| May | 105,5 | 104,9 | 91,1 | 102,2 | 97,9 | 89,4 | 94,3 |
| Jun | 104,2 | 104,3 | 98,3 | 101,4 | 97,3 | 93,7 | 98,8 |
| Jul | 107,9 | 107,1 | 102,3 | 105,7 | 97,6 | 94,3 | 102,3 |
| Aug | 104,6 | 102,1 | 99,7 | 101,7 | 99,5 | 93,1 | |
| Sep | 99,2 | 98,7 | 95,7 | 95,7 | 87,9 | 87,0 | |
| Oct | 104,5 | 102,5 | 99,7 | 96,2 | 92,5 | 94,0 | |
| Nov | 100,9 | 98,2 | 95,7 | 92,2 | 90,5 | 87,8 | |
| Dec | 97,1 | 93,3 | 94,3 | 90,8 | 83,3 | 87,0 | |
| Total | 101,5 | 100,0 | 94,8 | 96,7 | 93,0 | 88,9 | |

Table 2 – Year-on-year percentage change in the volume of electricity generated

| Month | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 year-to-date |
|--------------|-------------|-------------|------------|-------------|-------------|------|----------------------|
| Jan | -2,0 | -2,4 | -3,3 | -1,0 | -7,8 | 0,8 | 0,8 |
| Feb | -1,9 | 1,0 | -4,3 | -0,3 | -9,7 | 4,2 | 2,4 |
| Mar | -2,9 | -4,0 | 1,8 | -1,0 | -5,6 | 0,0 | 1,6 |
| Apr | 1,8 | -22,7 | 25,5 | -3,8 | -8,5 | 5,7 | 2,6 |
| May | -0,6 | -13,2 | 12,2 | -4,2 | -8,7 | 5,5 | 3,2 |
| Jun | 0,1 | -5,8 | 3,2 | -4,0 | -3,7 | 5,4 | 3,6 |
| Jul | -0,7 | -4,5 | 3,3 | -7,7 | -3,4 | 8,5 | 4,3 |
| Aug | -2,4 | -2,4 | 2,0 | -2,2 | -6,4 | | |
| Sep | -0,5 | -3,0 | 0,0 | -8,2 | -1,0 | | |
| Oct | -1,9 | -2,7 | -3,5 | -3,8 | 1,6 | | |
| Nov | -2,7 | -2,5 | -3,7 | -1,8 | -3,0 | | |
| Dec | -3,9 | 1,1 | -3,7 | -8,3 | 4,4 | | |
| Total | -1,5 | -5,2 | 2,0 | -3,8 | -4,4 | | |

Table 3 – Seasonally adjusted index of the volume of electricity generated

| Month | Base: 2019=100 | | | | Month-on-month % change | | | |
|-------|----------------|------|------|------|-------------------------|------|------|------|
| | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| Jan | 96,3 | 95,8 | 88,4 | 89,2 | -1,6 | 1,5 | 2,0 | -1,5 |
| Feb | 97,0 | 96,6 | 87,1 | 90,7 | 0,7 | 0,8 | -1,5 | 1,7 |
| Mar | 97,6 | 96,3 | 90,8 | 90,7 | 0,6 | -0,3 | 4,2 | 0,0 |
| Apr | 98,7 | 94,9 | 86,9 | 92,0 | 1,1 | -1,5 | -4,3 | 1,4 |
| May | 98,5 | 94,6 | 86,6 | 91,5 | -0,2 | -0,3 | -0,3 | -0,5 |
| Jun | 96,8 | 92,6 | 89,0 | 93,7 | -1,7 | -2,1 | 2,8 | 2,4 |
| Jul | 98,5 | 90,7 | 87,5 | 94,9 | 1,8 | -2,1 | -1,7 | 1,3 |
| Aug | 97,6 | 95,2 | 88,8 | | -0,9 | 5,0 | 1,5 | |
| Sep | 97,2 | 89,4 | 88,6 | | -0,4 | -6,1 | -0,2 | |
| Oct | 94,1 | 90,6 | 92,1 | | -3,2 | 1,3 | 4,0 | |
| Nov | 94,0 | 92,5 | 89,7 | | -0,1 | 2,1 | -2,6 | |
| Dec | 94,4 | 86,7 | 90,6 | | 0,4 | -6,3 | 1,0 | |

Table 4 – Volume of electricity distributed in South Africa (gigawatt-hours)

| Month | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------|----------------|----------------|----------------|----------------|----------------|--------|
| Jan | 19 132 | 18 444 | 18 002 | 17 974 | 16 664 | 16 920 |
| Feb | 17 493 | 17 491 | 16 825 | 16 815 | 15 362 | 16 129 |
| Mar | 18 930 | 17 976 | 18 522 | 18 408 | 17 592 | 17 465 |
| Apr | 18 711 | 14 379 | 18 078 | 17 709 | 16 271 | 17 275 |
| May | 19 943 | 17 254 | 19 371 | 18 897 | 17 433 | 18 257 |
| Jun | 19 609 | 18 664 | 19 049 | 18 838 | 18 232 | 18 839 |
| Jul | 20 224 | 19 533 | 20 082 | 18 814 | 18 239 | 19 500 |
| Aug | 19 105 | 19 038 | 19 459 | 19 220 | 17 981 | |
| Sep | 18 605 | 18 216 | 18 230 | 16 857 | 16 648 | |
| Oct | 19 367 | 18 883 | 18 203 | 17 784 | 17 970 | |
| Nov | 18 539 | 18 153 | 17 713 | 17 281 | 16 886 | |
| Dec | 17 678 | 17 979 | 17 496 | 16 173 | 16 923 | |
| Total | 227 336 | 216 010 | 221 030 | 214 770 | 206 201 | |

Table 5 – Year-on-year percentage change in electricity distributed in South Africa

| Month | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 year-to-date |
|--------------|-------------|------------|-------------|-------------|------|----------------------|
| Jan | -3,6 | -2,4 | -0,2 | -7,3 | 1,5 | 1,5 |
| Feb | 0,0 | -3,8 | -0,1 | -8,6 | 5,0 | 3,2 |
| Mar | -5,0 | 3,0 | -0,6 | -4,4 | -0,7 | 1,8 |
| Apr | -23,2 | 25,7 | -2,0 | -8,1 | 6,2 | 2,9 |
| May | -13,5 | 12,3 | -2,4 | -7,7 | 4,7 | 3,3 |
| Jun | -4,8 | 2,1 | -1,1 | -3,2 | 3,3 | 3,3 |
| Jul | -3,4 | 2,8 | -6,3 | -3,1 | 6,9 | 3,8 |
| Aug | -0,4 | 2,2 | -1,2 | -6,4 | | |
| Sep | -2,1 | 0,1 | -7,5 | -1,2 | | |
| Oct | -2,5 | -3,6 | -2,3 | 1,0 | | |
| Nov | -2,1 | -2,4 | -2,4 | -2,3 | | |
| Dec | 1,7 | -2,7 | -7,6 | 4,6 | | |
| Total | -5,0 | 2,3 | -2,8 | -4,0 | | |

Table 6 – Seasonally adjusted volume of electricity distributed in South Africa

| Month | Gigawatt-hours | | | | Month-on-month % change | | | |
|-------|----------------|--------|--------|--------|-------------------------|------|------|------|
| | 2021 | 2022 | 2023 | 2024 | 2021 | 2022 | 2023 | 2024 |
| Jan | 18 441 | 18 487 | 17 171 | 17 446 | -1,3 | 1,7 | 2,1 | -1,0 |
| Feb | 18 414 | 18 385 | 16 723 | 17 543 | -0,1 | -0,6 | -2,6 | 0,6 |
| Mar | 18 560 | 18 422 | 17 576 | 17 432 | 0,8 | 0,2 | 5,1 | -0,6 |
| Apr | 18 617 | 18 211 | 16 725 | 17 766 | 0,3 | -1,1 | -4,8 | 1,9 |
| May | 18 612 | 18 222 | 16 853 | 17 670 | 0,0 | 0,1 | 0,8 | -0,5 |
| Jun | 18 122 | 17 894 | 17 290 | 17 825 | -2,6 | -1,8 | 2,6 | 0,9 |
| Jul | 18 707 | 17 526 | 16 987 | 18 116 | 3,2 | -2,1 | -1,8 | 1,6 |
| Aug | 18 741 | 18 459 | 17 244 | | 0,2 | 5,3 | 1,5 | |
| Sep | 18 570 | 17 194 | 17 014 | | -0,9 | -6,9 | -1,3 | |
| Oct | 17 896 | 17 516 | 17 696 | | -3,6 | 1,9 | 4,0 | |
| Nov | 18 109 | 17 708 | 17 308 | | 1,2 | 1,1 | -2,2 | |
| Dec | 18 186 | 16 814 | 17 614 | | 0,4 | -5,0 | 1,8 | |

Table 7 – Volume of electricity by category (gigawatt-hours)

| | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 | Jul-24 year-on-year % change |
|--|--------|--------|--------|--------|--------|------------------------------------|
| Total - all producers | | | | | | |
| Generated | 19 119 | 18 717 | 19 852 | 20 796 | 21 529 | 8,5 |
| Inflow into South Africa | 822 | 927 | 925 | 900 | 830 | -16,2 |
| Consumed in power stations and auxiliary systems | 1 525 | 1 495 | 1 616 | 1 728 | 1 748 | 3,7 |
| Outflow from South Africa | 951 | 874 | 904 | 1 130 | 1 111 | 22,2 |
| Distributed in South Africa | 17 465 | 17 275 | 18 257 | 18 839 | 19 500 | 6,9 |
| National electricity supplier | | | | | | |
| Generated | 16 618 | 16 292 | 17 437 | 18 248 | 18 967 | 9,6 |
| Inflow into South Africa | 822 | 927 | 925 | 900 | 830 | -16,2 |
| Consumed in power stations and auxiliary systems | 1 434 | 1 412 | 1 518 | 1 622 | 1 640 | 4,5 |
| Outflow from South Africa | 951 | 874 | 904 | 1 130 | 1 111 | 22,2 |
| Distributed in South Africa | 15 055 | 14 933 | 15 940 | 16 396 | 17 046 | 7,8 |

Table 8 – Year-to-date volume of electricity by category: year-on-year percentage change and difference

| | Jan – Jul 2023 (GWh) | Jan – Jul 2024 (GWh) | % change between Jan – Jul 2023 and Jan – Jul 2024 | Difference between Jan – Jul 2023 and Jan – Jul 2024 (GWh) |
|--|-------------------------|-------------------------|--|---|
| Total - all producers | | | | |
| Generated | 129 931 | 135 603 | 4,4 | 5 672 |
| Inflow into South Africa | 6 318 | 6 266 | -0,8 | -52 |
| Consumed in power stations and auxiliary systems | 10 135 | 10 833 | 6,9 | 698 |
| Outflow from South Africa | 6 319 | 6 652 | 5,3 | 333 |
| Distributed in South Africa | 119 793 | 124 385 | 3,8 | 4 592 |
| National electricity supplier | | | | |
| Generated | 112 889 | 118 000 | 4,5 | 5 111 |
| Inflow into South Africa | 6 318 | 6 266 | -0,8 | -52 |
| Consumed in power stations and auxiliary systems | 9 446 | 10 153 | 7,5 | 707 |
| Outflow from South Africa | 6 319 | 6 652 | 5,3 | 333 |
| Distributed in South Africa | 103 441 | 107 460 | 3,9 | 4 019 |

Table 9 – Volume of electricity delivered to provinces (gigawatt-hours)

| Province | Mar-24 | Apr-24 | May-24 | Jun-24 | Jul-24 | Jul-24 year-on-year % change |
|---------------|---------------|---------------|---------------|---------------|---------------|------------------------------------|
| Western Cape | 1 635 | 1 592 | 1 677 | 1 654 | 1 797 | 10,2 |
| Eastern Cape | 704 | 718 | 742 | 751 | 824 | 5,5 |
| Northern Cape | 526 | 439 | 467 | 476 | 495 | 2,7 |
| Free State | 865 | 878 | 928 | 952 | 996 | 9,0 |
| KwaZulu-Natal | 3 219 | 3 152 | 3 308 | 3 296 | 3 387 | 2,2 |
| North West | 1 773 | 1 661 | 1 730 | 1 808 | 1 787 | 15,3 |
| Gauteng | 4 196 | 4 327 | 4 589 | 5 120 | 5 330 | 4,5 |
| Mpumalanga | 2 506 | 2 496 | 2 682 | 2 619 | 2 702 | 6,4 |
| Limpopo | 1 802 | 1 728 | 1 746 | 1 800 | 1 722 | 2,9 |
| Total | 17 227 | 16 991 | 17 868 | 18 476 | 19 039 | 5,9 |

Explanatory notes

- Introduction**
- 1 Statistics South Africa (Stats SA) conducts a monthly survey covering enterprises in the electricity industry. This statistical release contains monthly information regarding the volume of electricity units:
- generated and distributed in South Africa;
 - flowing into and out from South Africa as measured by the metering systems at the South African borders; and
 - delivered to provinces.
- Both unadjusted and seasonally adjusted figures are published.
- 2 In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2019.
- Purpose of the survey**
- 3 The results of the monthly electricity survey are used to compile estimates of the gross domestic product (GDP) and its components, which are used in monitoring the state of the economy and formulation of economic policy.
- Scope of the survey**
- 4 This survey covers enterprises conducting activities concerned with the generation and/or distribution of electricity (excluding the distribution of purchased electric energy). It includes electrical power installations, which, as subsidiary divisions of enterprises, produce electricity for regular use by these enterprises.
- Classification**
- 5 The 1993 edition of the *Standard Industrial Classification of All Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of All Economic Activities* (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects the predominant activity. Statistics in this publication are presented at SIC group (five-digit) level.
- Collection rate**
- 6 The collection rate for the survey on electricity generated and available for distribution for July 2024 was 92%. The revised collection rate for June 2024 was 96%.
- Statistical unit**
- 7 The statistical unit for the collection of information is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.
- Revised figures**
- 8 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. The reasons for routine revisions are outlined in the following schedule. Any unscheduled revisions will be promptly indicated in relevant tables to maintain transparency and accuracy. It is important to note that seasonally adjusted figures are revised monthly.

| Statistical release | Reason for revision | Period subject to revision |
|---|---|----------------------------|
| Jul-24 | Additional information from respondents | Jun-24 |
| Aug-24 | Additional information from respondents | Jul-24 |
| Sep-24 | Additional information from respondents | Aug-24 |
| Oct-24 | Additional information from respondents | Sep-24 |
| Nov-24 | Additional information from respondents | Oct-24 |
| Dec-24 | Additional information from respondents | Nov-24 |
| Jan-25 | Additional information from respondents | Dec-24 |
| Feb-25 | Additional information from respondents | Jan-25 |
| Mar-25 | Additional information from respondents | Feb-25 |
| Apr-25 | Additional information from respondents | Mar-25 |
| May-25 | Additional information from respondents | Apr-25 |
| Jun-25 | Additional information from respondents | May-25 |
| New base year in 2027/28 - periodic, approximately four- to five-year intervals | | |

- Rounding-off of figures**
- 9 Where figures have been rounded off, discrepancies may occur between sums of the component items and the totals.

- Historical data** 10 Historical electricity data are available on the Stats SA webpage. Click on the following link ([Time series data](#)) to access the data electronically.
- Past publications** 11 Past electricity releases are available on the Stats SA webpage. Click on the following link ([Past publications](#)) to access the releases electronically.
- Technical notes**
- Survey methodology and design**
- 1 All statistical units are stratified by type of economic activity according to the *Standard Industrial Classification of All Economic Activities* (SIC) and measure of size, where measure of size is the volume of electricity generated by the enterprise. All large enterprises (size group one) are completely enumerated. A sample is drawn from medium and small size enterprises by systematically selecting enterprises within each size category. An enterprise with a total generating capacity of less than 500 kilowatts is excluded from the sample.
- 2 The survey is conducted by email and telephone. Information is collected from a sample of 24 enterprises. As from September 2013, the national electricity supplier provided additional data for independent power producers (IPPs) that were not in the original sample of 24 enterprises.
- Monthly index of electricity generated** 3 The calculation of the monthly index of electricity generated is based on the volume of electricity units produced.
- Benchmarking** 4 The index of the volume of electricity generated should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities, as measured by the monthly electricity survey, is based on information received from a sample of enterprises conducting activities concerned with the generation and/or distribution of electricity (excluding the distribution of purchased electric energy). These levels are weighted according to the original sample and designed to represent the population of enterprises conducting activities concerned with the generation and/or distribution of electricity.
- The results of the 1995 Census of electricity, gas and steam served as a benchmark to verify or adjust the level of the monthly index of the volume of electricity generated collected through the monthly survey. The level adjustments were done on the volume index for July of the relevant census year (the 1995 census year covered the period 1 January to 31 December 1995 and therefore, the benchmarking was done using the index of July 1995 as reference point).
- Seasonal adjustment** 5 Seasonally adjusted estimates are generated each month using the X-12 Seasonal Adjustment Program developed by the United States Census Bureau. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X12-ARIMA procedure for electricity generated and available for distribution is described in more detail on the Stats SA website:
[Click to download Electricity seasonal adjustment February 2022.](#)
- Trend cycle** 6 The trend is the long-term pattern or movement of a time series. The X-12-ARIMA Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates to estimate the underlying trend cycle.
- Month-on-month percentage change** 7 The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.

Year-on-year percentage change 8 The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.

Glossary

Enterprise The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

Index of the volume of electricity generated A statistical measure of the change in the volume of electricity generated in a given period and the volume of electricity generated in the base period. The base period is 2019. The production in the base period is set at 100.

Industry An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the System of National Accounts (SNA) in the same way as in the *Standard Industrial Classification of All Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.

Inflow into SA Electricity flowing into South Africa as measured by the metering systems at the South African borders.

Outflow from SA Electricity flowing from South Africa as measured by the metering systems at the South African borders.

Unit of electricity One gigawatt-hour of electricity is equal to one million kilowatt-hours. A kilowatt-hour is the basic unit of electrical energy equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour. One kilowatt-hour equals one thousand watt-hours.

Symbols and abbreviations

| | |
|----------|---|
| GDP | Gross domestic product |
| GWh | Gigawatt-hour |
| IPPs | Independent Power Producers |
| ISIC | International Standard Industrial Classification |
| SIC | Standard Industrial Classification of All Economic Activities |
| SA | South Africa |
| Stats SA | Statistics South Africa |
| * | Revised figures |

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