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Department:  
Statistics South Africa  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X44, Pretoria, 0001, South Africa, ISibalo House, Koch Street, Salvokop, Pretoria, 0002  
www.statssa.gov.za, info@statssa.gov.za, Tel +27 12 310 8911

## **STATISTICAL RELEASE**

### **P4141**

# **Electricity generated and available for distribution (Preliminary)**

**July 2022**

**Embargoed until:  
1 September 2022  
13:00**

**ENQUIRIES:**  
Nicolai Claassen  
072 310 5351

**FORTHCOMING ISSUE:**  
August 2022

**EXPECTED RELEASE DATE:**  
6 October 2022

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## Electricity generated (produced) in South Africa: results for July 2022

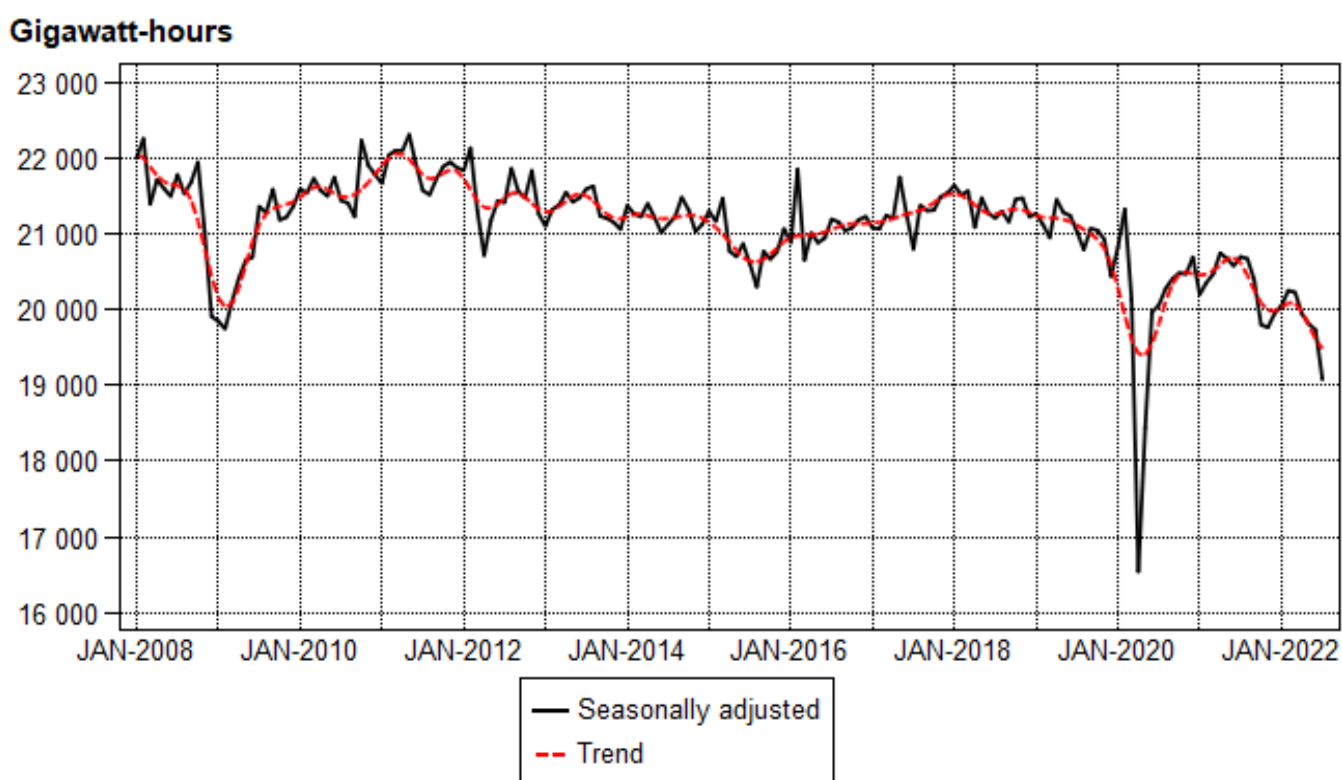
**Table A – Key growth rates in the volume of electricity generated**

	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Year-on-year % change, unadjusted	-0,3	-1,0	-3,8	-4,2	-4,0	-7,7
Month-on-month % change, seasonally adjusted	0,9	-0,1	-1,5	-0,6	-0,4	-3,2
3-month % change, seasonally adjusted <sup>1</sup>	0,5	1,7	1,1	-0,5	-1,8	-3,0

<sup>1</sup> Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Electricity generation (production) decreased by 7,7% year-on-year in July 2022. Seasonally adjusted electricity generation decreased by 3,2% in July 2022 compared with June 2022. This followed month-on-month changes of -0,4% in June 2022 and -0,6% in May 2022. Seasonally adjusted electricity generation decreased by 3,0% in the three months ended July 2022 compared with the previous three months.

**Figure 1 – Electricity generated in South Africa**



## Electricity distributed (consumed) in South Africa: results for July 2022

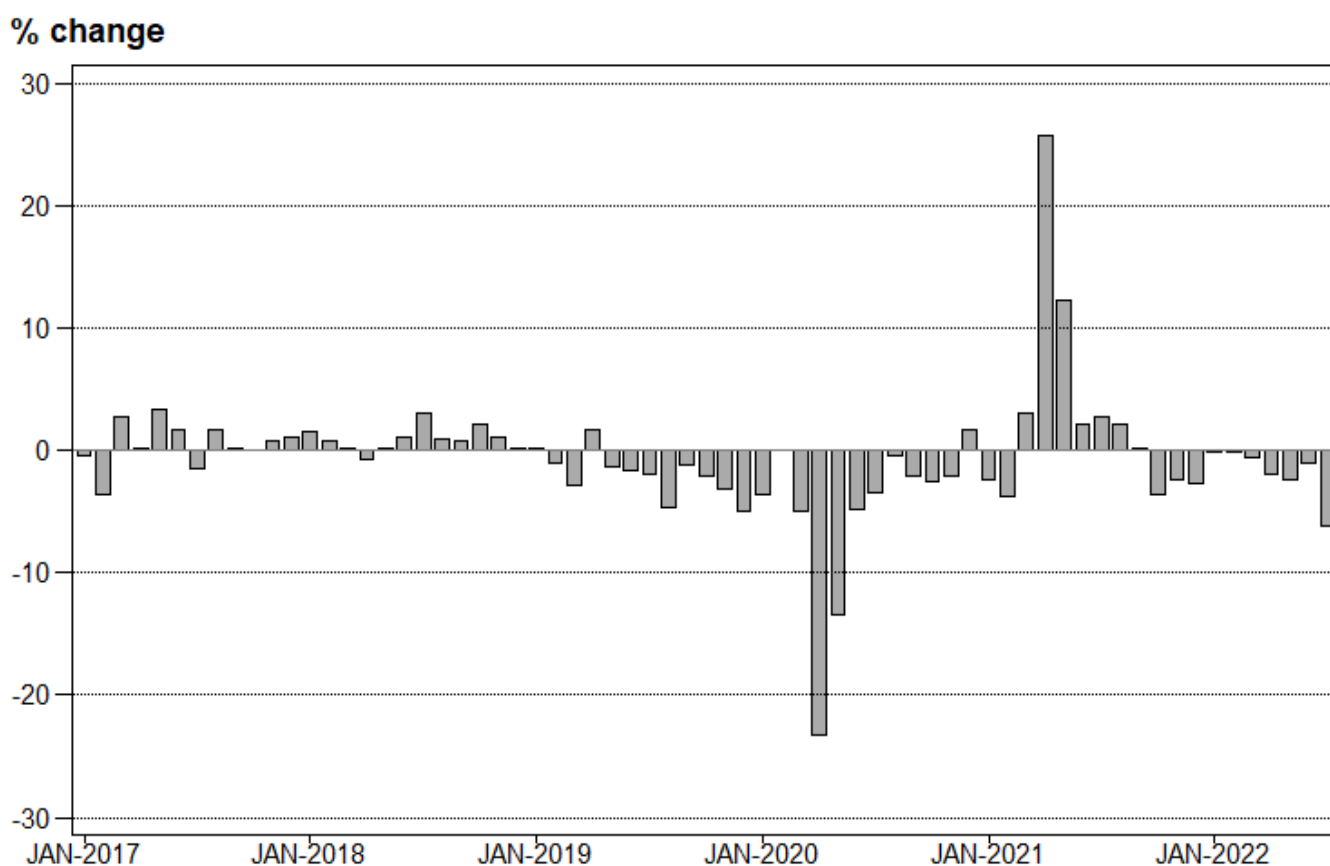
**Table B – Key growth rates in the volume of electricity distributed**

	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22
Year-on-year % change, unadjusted	-0,1	-0,6	-2,0	-2,4	-1,1	-6,2
Month-on-month % change, seasonally adjusted	-0,3	0,2	-0,8	-0,5	0,0	-3,3
3-month % change, seasonally adjusted <sup>1</sup>	1,0	1,6	0,3	-0,5	-1,1	-2,0

<sup>1</sup> Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Electricity distribution (consumption) decreased by 6,2% year-on-year in July 2022. Seasonally adjusted electricity distribution decreased by 3,3% month-on-month in July 2022, following month-on-month changes of 0,0% in June 2022 and -0,5% in May 2022. Seasonally adjusted electricity distribution decreased by 2,0% in the three months ended July 2022 compared with the previous three months.

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



**Risenga Maluleke**  
**Statistician-General**

## Tables

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

Month	2016	2017	2018	2019	2020	2021	2022 <sup>1</sup>
Jan	98,4	99,2	101,5	99,5	97,1	93,9	93,0
Feb	95,0	91,4	93,1	91,3	92,2	88,2	87,9
Mar	98,7	101,3	102,5	99,5	95,5	97,2	96,2
Apr	96,6	97,3	96,8	98,5	76,1	95,5	91,9
May	101,8	106,4	105,5	104,9	91,1	102,2	97,9
Jun	102,3	103,9	104,2	104,3	98,3	101,4	97,3
Jul	107,5	105,6	107,9	107,1	102,3	105,7	97,6
Aug	104,2	105,0	104,6	102,1	99,7	101,7	
Sep	98,9	100,0	99,2	98,7	95,7	95,7	
Oct	102,3	103,7	104,5	102,5	99,7	96,2	
Nov	99,4	101,0	100,9	98,2	95,7	92,2	
Dec	97,3	98,8	97,1	93,3	94,3	90,8	
<b>Total</b>	<b>100,2</b>	<b>101,1</b>	<b>101,5</b>	<b>100,0</b>	<b>94,8</b>	<b>96,7</b>	

<sup>1</sup> Latest month is preliminary.

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

Month	2017	2018	2019	2020	2021	2022	2022 year-to-date
Jan	0,8	2,3	-2,0	-2,4	-3,3	-1,0	-1,0
Feb	-3,8	1,9	-1,9	1,0	-4,3	-0,3	-0,7
Mar	2,6	1,2	-2,9	-4,0	1,8	-1,0	-0,8
Apr	0,7	-0,5	1,8	-22,7	25,5	-3,8	-1,5
May	4,5	-0,8	-0,6	-13,2	12,2	-4,2	-2,1
Jun	1,6	0,3	0,1	-5,8	3,2	-4,0	-2,5
Jul	-1,8	2,2	-0,7	-4,5	3,3	-7,7	-3,3
Aug	0,8	-0,4	-2,4	-2,4	2,0		
Sep	1,1	-0,8	-0,5	-3,0	0,0		
Oct	1,4	0,8	-1,9	-2,7	-3,5		
Nov	1,6	-0,1	-2,7	-2,5	-3,7		
Dec	1,5	-1,7	-3,9	1,1	-3,7		
<b>Total</b>	<b>0,9</b>	<b>0,4</b>	<b>-1,5</b>	<b>-5,2</b>	<b>2,0</b>		

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

Month	Base: 2019=100				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	101,0	98,9	96,0	95,3	0,2	1,9	-2,3	0,5
Feb	100,3	101,3	96,7	96,2	-0,7	2,4	0,7	0,9
Mar	99,5	95,6	97,3	96,1	-0,8	-5,6	0,6	-0,1
Apr	101,9	78,6	98,6	94,7	2,4	-17,8	1,3	-1,5
May	101,1	87,6	98,2	94,1	-0,8	11,5	-0,4	-0,6
Jun	100,9	94,9	97,8	93,7	-0,2	8,3	-0,4	-0,4
Jul	99,9	95,3	98,3	90,7	-1,0	0,4	0,5	-3,2
Aug	98,8	96,3	98,2		-1,1	1,0	-0,1	
Sep	100,1	96,9	96,9		1,3	0,6	-1,3	
Oct	100,0	97,3	94,1		-0,1	0,4	-2,9	
Nov	99,4	97,2	93,9		-0,6	-0,1	-0,2	
Dec	97,1	98,3	94,8		-2,3	1,1	1,0	

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

Month	2017	2018	2019	2020	2021	2022 <sup>1</sup>
Jan	18 820	19 106	19 132	18 444	18 002	17 974
Feb	17 539	17 667	17 493	17 491	16 825	16 815
Mar	19 441	19 470	18 930	17 976	18 522	18 408
Apr	18 550	18 421	18 711	14 379	18 078	17 709
May	20 161	20 207	19 943	17 254	19 371	18 897
Jun	19 720	19 926	19 609	18 664	19 049	18 838
Jul	19 997	20 626	20 224	19 533	20 082	18 833
Aug	19 880	20 053	19 105	19 038	19 459	
Sep	18 707	18 839	18 605	18 216	18 230	
Oct	19 352	19 785	19 367	18 883	18 203	
Nov	18 940	19 123	18 539	18 153	17 713	
Dec	18 562	18 582	17 678	17 979	17 496	
<b>Total</b>	<b>229 669</b>	<b>231 805</b>	<b>227 336</b>	<b>216 010</b>	<b>221 030</b>	

<sup>1</sup> Latest month is preliminary.**Table 5 – Year-on-year percentage change in electricity distributed in South Africa**

Month	2018	2019	2020	2021	2022	2022 year-to-date
Jan	1,5	0,1	-3,6	-2,4	-0,2	-0,2
Feb	0,7	-1,0	0,0	-3,8	-0,1	-0,1
Mar	0,1	-2,8	-5,0	3,0	-0,6	-0,3
Apr	-0,7	1,6	-23,2	25,7	-2,0	-0,7
May	0,2	-1,3	-13,5	12,3	-2,4	-1,1
Jun	1,0	-1,6	-4,8	2,1	-1,1	-1,1
Jul	3,1	-1,9	-3,4	2,8	-6,2	-1,9
Aug	0,9	-4,7	-0,4	2,2		
Sep	0,7	-1,2	-2,1	0,1		
Oct	2,2	-2,1	-2,5	-3,6		
Nov	1,0	-3,1	-2,1	-2,4		
Dec	0,1	-4,9	1,7	-2,7		
<b>Total</b>	<b>0,9</b>	<b>-1,9</b>	<b>-5,0</b>	<b>2,3</b>		

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

Month	Gigawatt-hours				Month-on-month % change			
	2019	2020	2021	2022	2019	2020	2021	2022
Jan	19 412	18 779	18 376	18 388	0,5	1,9	-2,1	0,6
Feb	19 117	19 132	18 362	18 328	-1,5	1,9	-0,1	-0,3
Mar	18 887	17 953	18 492	18 365	-1,2	-6,2	0,7	0,2
Apr	19 310	14 793	18 616	18 214	2,2	-17,6	0,7	-0,8
May	19 151	16 541	18 559	18 130	-0,8	11,8	-0,3	-0,5
Jun	18 951	18 004	18 330	18 129	-1,0	8,8	-1,2	0,0
Jul	18 849	18 203	18 676	17 529	-0,5	1,1	1,9	-3,3
Aug	18 508	18 456	18 852		-1,8	1,4	0,9	
Sep	18 910	18 488	18 491		2,2	0,2	-1,9	
Oct	19 006	18 536	17 886		0,5	0,3	-3,3	
Nov	18 807	18 470	18 059		-1,0	-0,4	1,0	
Dec	18 425	18 774	18 274		-2,0	1,6	1,2	

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

	Mar-22	Apr-22	May-22	Jun-22	Jul-22 <sup>1</sup>	Jul-22 year-on-year % change
<b>Total - all producers</b>						
Generated	20 240	19 338	20 606	20 485	20 544	-7,7
Inflow into South Africa	871	904	913	918	823	-3,5
Consumed in power stations and auxiliary systems	1 601	1 595	1 638	1 618	1 543	-17,4
Outflow from South Africa	1 103	937	982	947	992	-14,6
Distributed in South Africa	18 408	17 709	18 897	18 838	18 833	-6,2
<b>Eskom</b>						
Generated	18 261	17 370	18 667	18 381	18 313	-7,7
Inflow into South Africa	871	904	913	918	823	-3,5
Consumed in power stations and auxiliary systems	1 522	1 525	1 555	1 528	1 473	-16,6
Outflow from South Africa	1 103	937	982	947	992	-14,6
Distributed in South Africa	16 506	15 811	17 042	16 824	16 672	-6,2

<sup>1</sup> Preliminary.**Table 8 – Year-to-date volume of electricity by category: year-on-year percentage change and difference**

	Jan – Jul 2021 (GWh)	Jan – Jul 2022 (GWh)	% change between Jan – Jul 2021 and Jan – Jul 2022	Difference between Jan – Jul 2021 and Jan – Jul 2022 (GWh)
<b>Total - all producers</b>				
Generated	144 012	139 289	-3,3	-4 723
Inflow into South Africa	5 269	6 363	20,8	1 094
Consumed in power stations and auxiliary systems	11 708	10 956	-6,4	-752
Outflow from South Africa	7 646	7 219	-5,6	-427
Distributed in South Africa	129 929	127 474	-1,9	-2 455
<b>Eskom</b>				
Generated	128 989	125 199	-2,9	-3 790
Inflow into South Africa	5 269	6 363	20,8	1 094
Consumed in power stations and auxiliary systems	11 149	10 426	-6,5	-723
Outflow from South Africa	7 646	7 219	-5,6	-427
Distributed in South Africa	115 465	113 915	-1,3	-1 550

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

Province	Mar-22	Apr-22	May-22	Jun-22	Jul-22 <sup>1</sup>	Jul-22 year-on-year % change
Western Cape	1 759	1 606	1 698	1 559	1 547	-13,6
Eastern Cape	772	749	787	778	777	-1,5
Northern Cape	467	446	464	481	567	5,2
Free State	877	837	836	897	806	-21,1
KwaZulu-Natal	3 365	3 098	3 309	3 328	3 377	-0,3
North West	1 944	1 913	1 997	1 930	1 880	-2,3
Gauteng	4 433	4 489	4 973	5 268	5 264	-9,4
Mpumalanga	2 597	2 549	2 701	2 557	2 536	-5,4
Limpopo	1 794	1 685	1 749	1 710	1 663	-4,9
<b>Total</b>	<b>18 009</b>	<b>17 372</b>	<b>18 514</b>	<b>18 510</b>	<b>18 416</b>	<b>-6,5</b>

<sup>1</sup> Preliminary.

## Survey information

<b>Introduction</b>	<b>1</b>	<p>Statistics South Africa (Stats SA) conducts a monthly survey covering electricity undertakings and establishments (branches) in the electricity industry. This statistical release contains monthly information regarding the volume of electricity units:</p> <ul style="list-style-type: none"> <li>generated and distributed in South Africa;</li> <li>flowing into and out from South Africa as measured by the metering systems at the South African borders; and</li> <li>delivered to provinces.</li> </ul> <p>Both unadjusted and seasonally adjusted figures are published.</p>
	<b>2</b>	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.
	<b>3</b>	Some information for the current month may have been estimated due to late submission by respondents. These estimates will be revised in the next statistical release(s) as soon as actual information is available.
<b>Purpose of the survey</b>	<b>4</b>	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.
<b>Scope of the survey</b>	<b>5</b>	This survey covers electricity undertakings and establishments 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 undertakings, produce electricity for regular use by these undertakings.
<b>Classification</b>	<b>6</b>	The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (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 <i>International Standard Industrial Classification of all Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each statistical unit is classified to an industry which reflects the predominant activity of the electricity undertaking or establishment.
<b>Collection rate</b>	<b>7</b>	The collection rate for the survey on electricity generated and available for distribution for July 2022 was 88%. The collection rate for June 2022 was 92%.
<b>Statistical unit</b>	<b>8</b>	The statistical unit for the collection of information is the electricity undertaking or establishment. The electricity undertaking or establishment is the smallest economic unit that functions as a separate entity (see point 5).
<b>Revised figures</b>	<b>9</b>	<p>Normally revised figures are due to:</p> <ul style="list-style-type: none"> <li>late submission of data to Stats SA; and</li> <li>revisions or corrections by respondents to previous reported data.</li> </ul> <p>Data are edited at enterprise level.</p>
<b>Rounding-off of figures</b>	<b>10</b>	Where figures have been rounded off, discrepancies may occur between sums of the component items and the totals.
<b>Historical data</b>	<b>11</b>	Historical electricity data are available on the Stats SA webpage. Click on the following link ( <a href="#">Time series data</a> ) to access the data electronically.
<b>Past publications</b>	<b>12</b>	Past electricity releases are available on the Stats SA webpage. Click on the following link ( <a href="#">Past publications</a> ) to access the releases electronically.



## Technical notes

<b>Survey methodology and design</b>	1	All statistical units are stratified by type of economic activity according to the <i>Standard Industrial Classification of all Economic Activities</i> (SIC) and measure of size, where measure of size is the volume of electricity generated by the electricity undertaking or establishment. All large undertakings or establishments (size group one) are completely enumerated. A sample is drawn from medium and small size undertakings and establishments by systematically selecting undertakings or establishments within each size category. An electricity undertaking or establishment 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 electricity undertakings or establishments. As from September 2013, Eskom supplied additional data for independent power producers (IPPs) that were not in the original sample of 24 establishments.
<b>Monthly index of electricity generated</b>	3	The calculation of the monthly index of electricity generated is based on the volume of electricity units produced.
<b>Benchmarking</b>	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 electricity undertakings and establishments. These levels are weighted according to the original sample and designed to represent the population of electricity undertakings and establishments.
		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).
<b>Seasonal adjustment</b>	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 recognized. 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: <a href="#">Click to download Electricity seasonal adjustment February 2022</a>
<b>Trend cycle</b>	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.
<b>Month-on-month percentage change</b>	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.
<b>Year-on-year percentage change</b>	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

<b>Electricity undertaking</b>	An undertaking concerned with the generation and distribution of electricity, including electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.	
<b>Index of the volume of electricity generated</b>	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.	
<b>Industry</b>	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 <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.	
<b>Inflow into SA</b>	Electricity flowing into South Africa as measured by the metering systems at the South African borders.	
<b>Outflow from SA</b>	Electricity flowing from South Africa as measured by the metering systems at the South African borders.	
<b>Unit of electricity</b>	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.	
<b>Symbols and abbreviations</b>	GDP	Gross domestic product
	GWh	Gigawatt-hour
	ISIC	International Standard Industrial Classification
	SIC	Standard Industrial Classification of all Economic Activities
	SA	South Africa
	Stats SA	Statistics South Africa
	*	Revised figures

## Technical enquiries

<b>Tsholofelo Ditinti</b>	Telephone number: 072 917 6444 Email: tsholofelod@statssa.gov.za
<b>Nicolai Claassen</b>	Telephone number: 072 310 5351 Email: nicolaic@statssa.gov.za

## General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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Postal address	Private Bag X44, Pretoria, 0001

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