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## Statistical release

# Electricity generated and available for distribution (Preliminary)

**June 2013** 

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#### **Results for June 2013**

#### Table A – Selected key figures regarding electricity generated and available for distribution

Actual estimates	June 2013	% change between June 2012 and June 2013	% change between April to June 2012 and April to June 2013	% change between January to June 2012 and January to June 2013
Electricity available for distribution (Gigawatt-hours)	20 270	0,0	0,7	-1,8
Index of the physical volume of electricity production (2010=100)	102,2	0,0	1,6	-0,2

<sup>1/</sup> Preliminary.

Seasonally adjusted estimates	June 2013	% change between May and June 2013	% change between January to March 2013 and April to June 2013
Electricity available for distribution (Gigawatt-hours)	19 500	0,2	1,8
Index of the physical volume of electricity production (2010=100)	98,8	0,3	0,4

#### Consumption of electricity

The actual volume of electricity consumption remained stable year-on-year in June 2013. Seasonally adjusted electricity consumption increased by 0,2% month-on-month in June 2013, following a month-on-month increase of 0,3% in May 2013. Seasonally adjusted electricity consumption increased by 1,8% in the second quarter of 2013 compared with the previous quarter.

#### **Production of electricity**

The actual estimated electricity production remained unchanged year-on-year in June 2013. Seasonally adjusted electricity production increased by 0,3% month-on-month in June 2013 following a month-on-month decrease of 1,5% in May 2013. Seasonally adjusted electricity production increased by 0,4% in the second quarter of 2013 compared with the previous quarter.

#### Electricity delivered by Eskom to the provinces

The total volume of electricity delivered by Eskom to the provinces decreased by 0,5% (-91 Gigawatt-hours) in June 2013 compared with June 2012. Decreases were reported in four of the nine provinces, with the largest volume decrease recorded for Gauteng (-299 Gigawatt-hours). Mpumalanga recorded the largest volume increase (159 Gigawatt-hours) over this period.

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution in the second quarter of 2013 and the previous quarter

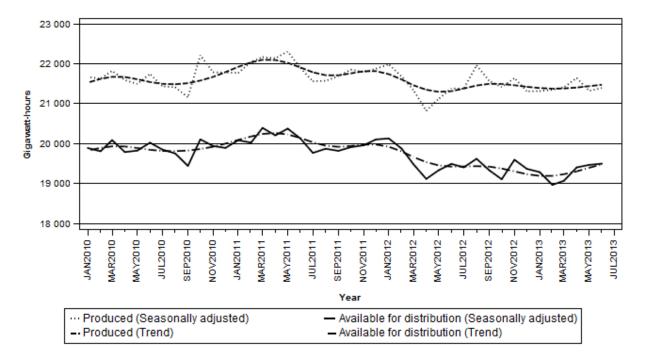
Gigawatt-hours	Seasonally adjusted quantity January to March 2013	Seasonally adjusted quantity April to June 2013	% change between January to March 2013 and April to June 2013	Quantity difference between January to March 2013 and April to June 2013
Electricity produced	64 079	64 362	0,4	283
Electricity available for distribution in South Africa	57 330	58 374	1,8	1 044

Table C - Comparison of actual estimates between the second quarter 2013 and the second quarter of 2012

Gigawatt-hours	Actual volume April to June 2012	Actual volume April to June 2013	% change between April to June 2012 and April to June 2013	Quantity difference between April to June 2012 and April to June 2013
Electricity produced	63 908	64 922	1,6	1 014
Purchased outside South Africa (import) 1/	3 178	2 359	-25,8	-819
Consumed in power stations and auxiliary systems	4 645	4 775	2,8	130
Sold outside South Africa (export) 2/	3 831	3 486	-9,0	-345
Electricity available for distribution in South Africa	58 609	59 020	0,7	411

<sup>1/</sup> Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend



PJ Lehohla Statistician-General

<sup>2/</sup> Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

#### **Tables**

Table 1 – Total volume of electricity available for distribution in South Africa: 2008–2013

Month	Gigawatt-hours								
WOILLI	2008	2009	2010	2011	2012	2013			
January	19 256	17 919	19 396	19 616	19 676	18 860			
February	18 668	16 757	18 181	18 455	18 783	17 493			
March	19 603	18 694	20 186	20 518	19 623	19 202			
April	19 127	17 934	19 102	19 539	18 466	18 762			
May	20 365	19 548	20 435	20 938	19 869	19 988			
June	20 515	19 819	20 800	20 914	20 274	1/ 20 270			
July	21 610	21 151	21 307	21 162	20 743				
August	20 736	20 398	20 540	20 617	20 345				
September	19 725	19 382	19 256	19 619	19 100				
October	20 138	19 899	20 371	20 198	19 413				
November	18 640	19 248	19 702	19 763	19 426				
December	17 541	18 850	18 996	19 189	18 456				
Year	235 924	229 599	238 272	240 528	234 174				

<sup>1/</sup> Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2008–2013

M 4h-		Percentage change 2/								
Month	2008	2009	2010	2011	2012	2013				
January	-1,6	-6,9	8,2	1,1	0,3	-4,1				
February	2,0	-10,2	8,5	1,5	1,8	-6,9				
March	-2,8	-4,6	8,0	1,6	-4,4	-2,1				
April	0,8	-6,2	6,5	2,3	-5,5	1,6				
May	-2,6	-4,0	4,5	2,5	-5,1	0,6				
June	-2,4	-3,4	4,9	0,5	-3,1	0,0				
July	-0,8	-2,1	0,7	-0,7	-2,0					
August	-2,9	-1,6	0,7	0,4	-1,3					
September	0,0	-1,7	-0,7	1,9	-2,6					
October	-1,5	-1,2	2,4	-0,8	-3,9					
November	-5,8	3,3	2,4	0,3	-1,7					
December	-8,4	7,5	0,8	1,0	-3,8					
Year	-2,2	-2,7	3,8	0,9	-2,6					

<sup>2/</sup> The annual percentage change is the change in the volume of electricity available for distribution of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2008–2013

		Gigawatt-hours									
Month	2008	2009	2010	2011	2012	2013	% change between current and previous month				
January	19 753	18 410	19 891	20 087	20 132	19 289	-0,4				
February	19 917	18 424	19 810	20 026	19 879	18 969	-1,7				
March	19 563	18 630	20 088	20 395	19 485	19 072	0,5				
April	19 891	18 663	19 790	20 207	19 117	19 406	1,8				
May	19 637	18 878	19 826	20 377	19 334	19 468	0,3				
June	19 761	19 043	20 025	20 128	19 494	19 500	0,2				
July	20 112	19 657	19 852	19 769	19 407						
August	19 864	19 565	19 756	19 873	19 622						
September	19 938	19 579	19 443	19 820	19 333						
October	19 872	19 641	20 108	19 913	19 109						
November	18 933	19 508	19 942	19 960	19 597						
December	18 387	19 729	19 894	20 106	19 370						

Table 4 - Indices of the physical volume of electricity production: 2008-2013

Month		Base: 2010=100								
	2008	2009	2010	2011	2012	2013				
January	99,3	89,7	97,6	98,1	99,2	96,2				
February	94,1	83,5	91,1	93,3	93,8	90,5				
March	99,6	93,7	101,3	103,0	99,3	99,6				
April	96,2	90,7	96,2	98,9	92,9	96,7				
May	103,4	98,6	102,3	105,9	100,3	101,2				
June	102,6	98,8	103,8	104,6	102,2	1/ 102,2				
July	108,6	106,4	106,6	106,8	105,7					
August	104,0	102,7	103,2	103,7	105,4					
September	98,8	98,5	97,0	99,4	98,7					
October	103,2	99,6	104,6	103,1	101,1					
November	95,7	96,8	100,0	100,1	99,5					
December	88,3	94,6	96,3	96,7	94,0					
Year	99,5	96,1	100,0	101,1	99,3					

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2008–2013

Month	Percentage change 2/								
	2008	2009	2010	2011	2012	2013			
January	1,2	-9,7	8,8	0,5	1,1	-3,0			
February	2,6	-11,3	9,1	2,4	0,5	-3,5			
March	-2,1	-5,9	8,1	1,7	-3,6	0,3			
April	1,1	-5,7	6,1	2,8	-6,1	4,1			
May	-2,1	-4,6	3,8	3,5	-5,3	0,9			
June	-3,3	-3,7	5,1	0,8	-2,3	0,0			
July	-1,3	-2,0	0,2	0,2	-1,0				
August	-3,3	-1,3	0,5	0,5	1,6				
September	-0,7	-0,3	-1,5	2,5	-0,7				
October	0,2	-3,5	5,0	-1,4	-1,9				
November	-5,1	1,1	3,3	0,1	-0,6				
December	-10,5	7,1	1,8	0,4	-2,8				
Year	-2,0	-3,4	4,1	1,1	-1,8				

<sup>2/</sup> The annual percentage change is the change in the index of the physical volume of electricity production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 6 - Seasonally adjusted indices of the physical volume of electricity production: 2008-2013

		Base: 2010=100										
Month	2008	2009	2010	2011	2012	2013	% change between current and previous month					
January	101,8	92,1	100,1	100,6	101,6	98,5	0,0					
February	101,1	92,4	99,9	101,9	100,2	98,6	0,1					
March	99,4	93,4	100,8	102,4	98,6	98,9	0,3					
April	100,2	94,5	99,7	102,3	96,2	100,0	1,1					
May	99,9	95,3	99,3	103,1	97,6	98,5	-1,5					
June	99,3	95,4	100,5	101,1	98,8	98,8	0,3					
July	100,8	98,6	99,0	99,6	98,8							
August	99,3	98,1	98,9	99,7	101,5							
September	99,8	99,3	97,8	100,2	99,7							
October	101,3	97,7	102,6	101,0	98,9							
November	96,8	97,6	100,7	100,7	100,0							
December	92,3	98,8	100,6	101,1	98,5							

Table 7 - Total volume of electricity imported: 2008-2013 1/

Month		Gigawatt-hours									
	2008	2009	2010	2011	2012	2013					
January	638	1 102	1 122	1 088	1 085	676					
February	885	999	995	730	1 063	407					
March	802	1 064	1 040	1 112	945	455					
April	844	906	931	912	1 068	559					
May	761	937	1 074	907	1 066	919					
June	1 002	1 088	1 019	1 009	1 044	2/ 881					
July	1 089	1 040	1 117	979	903						
August	1 076	1 072	1 109	1 108	465						
September	1 044	920	1 068	974	474						
October	645	1 115	770	911	451						
November	711	940	1 018	1 073	654						
December	1 075	1 112	930	1 087	788						
Year	10 572	12 295	12 193	11 890	10 006						

<sup>1/</sup> Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

Table 8 - Total volume of electricity exported: 2008-2013 1/

Mandh	Gigawatt-hours									
Month	2008	2009	2010	2011	2012	2013				
January	1 280	1 096	1 217	1 133	1 247	1 115				
February	1 101	979	1 128	1 069	1 212	1 095				
March	1 136	1 100	1 252	1 279	1 242	1 187				
April	998	1 086	1 170	1 190	1 174	1 132				
May	1 120	1 109	1 177	1 241	1 322	1 196				
June	1 162	1 175	1 132	1 174	1 335	2/ 1 158				
July	1 249	1 223	1 206	1 247	1 350					
August	1 220	1 235	1 275	1 298	1 295					
September	1 203	1 285	1 248	1 288	1 165					
October	1 258	1 288	1 338	1 378	1 300					
November	1 252	1 213	1 316	1 381	1 233					
December	1 189	1 263	1 209	1 286	1 160					
Year	14 168	14 052	14 668	14 964	15 035					

<sup>1/</sup> Physical energy flowing out of South Africa as measured by the metering systems at the South African borders. 2/ Preliminary.

<sup>2/</sup> Préliminary.

Table 9a - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (monthly figures)

		Gigawatt-hours						
		June 2012	May 2013	June 2013 1/	% change between June 2012 and June 2013	Difference between June 2012 and June 2013		
Total - All producers	Electricity produced	22 107	21 888	22 110	0,0	3		
	Purchased outside South Africa (import) 2/	1 044	919	881	-15,6	-163		
	Consumed in power stations and auxiliary systems	1 542	1 623	1 563	1,4	21		
	Sold outside South Africa (export) 3/	1 335	1 196	1 158	-13,3	-177		
	Electricity available for distribution in South Africa	20 274	19 988	20 270	0,0	-4		
ESKOM	Electricity produced	21 203	20 928	21 067	-0,6	-136		
	Purchased outside South Africa (import) 2/	1 044	919	881	-15,6	-163		
	Consumed in power stations and auxiliary systems			1 493	1,6	24		
	Sold outside South Africa (export) 3/	1 335	1 196	1 158	-13,3	-177		
	Electricity available for distribution in South Africa	19 444	19 085	19 297	-0,8	-147		

<sup>1/</sup> Preliminary.

Table 9b - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (cumulative figures)

		Gigawatt-hours						
		January to June 2012	January to June 2013 1/	% change between January to June 2012 and January to June 2013	Difference between January to June 2012 and January to June 2013			
Total - All producers	Electricity produced	127 145	126 865	-0,2	-280			
	Purchased outside South Africa (import) 2/	6 271	3 897	-37,9	-2 374			
	Consumed in power stations and auxiliary systems	9 191	9 307	1,3	116			
	Sold outside South Africa (export) 3/	7 532	6 883	-8,6	-649			
	Electricity available for distribution in South Africa	116 691	114 575	-1,8	-2 116			
ESKOM	Electricity produced	121 913	121 475	-0,4	-438			
	Purchased outside South Africa (import) 2/	6 271	3 897	-37,9	-2 374			
	Consumed in power stations and auxiliary systems	8 753	8 928	2,0	175			
	Sold outside South Africa (export) 3/	7 532	6 883	-8,6	-649			
	Electricity available for distribution in South Africa	111 899	109 563	-2,1	-2 336			

<sup>2/</sup> Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

<sup>3/</sup> Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

<sup>2/</sup> Physical energy flowing into South Africa as measured by the metering systems at the South African borders.3/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

Table 10 - Total volume of electricity delivered by Eskom to provinces for 2012 and 2013 1/

		Gigawatt-hours									
Period		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2012	January	1 889	844	464	706	3 527	2 237	4 631	2 910	1 038	18 246
	February	1 922	816	403	668	3 271	2 034	4 509	2 779	988	17 390
	March	2 027	859	436	688	3 282	2 161	4 849	2 900	1 000	18 202
	April	1 846	763	391	655	3 154	1 993	4 624	2 800	937	17 163
	May	1 943	839	401	709	3 318	2 181	5 159	2 884	991	18 425
	June	1 933	802	406	775	3 315	2 205	5 643	2 816	974	18 869
	July	1 978	837	432	793	3 441	2 273	5 731	2 922	952	19 359
	August	1 993	838	420	776	3 436	2 186	5 540	2 767	937	18 893
	September	1 852	788	414	664	3 316	2 097	4 981	2 678	950	17 740
	October	1 885	795	418	703	3 458	2 085	4 856	2 884	988	18 072
	November	1 840	784	451	717	3 422	2 170	4 701	2 944	975	18 004
	December	1 867	751	433	633	3 355	2 039	4 213	2 805	959	17 055
	Year	22 975	9 716	5 069	8 487	40 295	25 661	59 437	34 089	11 689	217 418
	Year to date	11 560	4 923	2 501	4 201	19 867	12 811	29 415	17 089	5 928	108 295
2013	January	1 932	796	490	667	3 409	2 022	4 432	2 911	910	17 569
	February	1 825	751	441	618	3 137	1 900	4 216	2 517	811	16 216
	March	1 956	839	476	630	3 454	1 973	4 655	2 781	930	17 694
	April	1 833	802	415	615	3 352	2 000	4 749	2 657	901	17 324
	May	1 941	869	441	644	3 455	2 088	5 346	2 871	913	18 568
	June 2/	1 902	857	440	689	3 428	2 149	5 344	2 975	994	18 778
	Year to date	11 389	4 914	2 703	3 863	20 235	12 132	28 742	16 712	5 459	106 149

<sup>1/</sup> Wholesale energy (Gigawatt-hours) as delivered by Eskom to the various provinces. 2/ Preliminary.

#### **Explanatory notes**

#### Introduction

1

Statistics South Africa (Stats SA) conducts a monthly sample survey of the electricity industry covering electricity undertakings and establishments (branches). This statistical release contains information regarding the volume of electricity units generated and available for distribution in South Africa, the volume of units purchased and sold outside South Africa and the volume of units distributed by Eskom by province on a monthly basis. Both actual and seasonally adjusted figures are published.

- This statistical release reflects indices of the physical volume of electricity production on the basis of 2010=100. In accordance with international practice, the indices have to be rebased every five years to a new base year.
- In order to improve timeliness of the publication, 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.

### Purpose of the 4 survey

The results of the monthly electricity generated and available for distribution 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 5 survey

This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of electricity. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.

#### Classification 6

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 statistical unit is classified to an industry, which reflects the predominant activity of the electricity undertaking or establishment.

#### Collection rate 7

The collection rate for the survey on electricity generated and available for distribution for June 2013 was 100%. The improved collection rate for May 2013 was 96%.

#### Statistical unit 8

The basic 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. Each statistical unit is classified to an industry (see paragraph 5).

#### Survey methodology and design

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 electricity undertaking or establishment. All large undertakings or establishments (size category one cases) 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 kilowatt is excluded from the sample.

The survey is conducted by mail, email and telephone. Information is collected from a sample of 25 electricity undertakings or establishments.

## Monthly production indices

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The calculation of the monthly production indices is based on the volume of electricity units produced.

#### Benchmarking 12

The index of physical volume of electricity production should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities, as measured by the monthly electricity generated and available for distribution 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. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of electricity, gas and steam. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking.

The results of the 1995 Census of electricity, gas and steam served as a benchmark to verify or adjust the level of the monthly physical volume of electricity production indices collected through the monthly sample survey. The level adjustments were done on the volume indices for August of the relevant census year (the 1995 census year covered the period 1 January 1995 to 31 December 1995 and therefore, the benchmarking was done using the index of August 1995 as reference point).

### Seasonal adjustment

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Seasonally adjusted estimates of all items are generated each month, using the X-12-ARIMA Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from a time 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 at <a href="http://www.statssa.gov.za/publications/P4141/electricity seasonal adjustment note 2012.pdf">http://www.statssa.gov.za/publications/P4141/electricity seasonal adjustment note 2012.pdf</a>

#### Trend cycle

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.

## Related publications

Users may also wish to refer to the following publications which are available from Stats SA:

- Bulletin of Statistics;
- SA Statistics; and
- Stats in Brief.

## Rounding-off 17 of figures

Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may therefore be slight discrepancies between the sums of the constituent items and the totals shown.

#### **Glossary**

Consumption of electricity

For purposes of this release the term 'consumption of electricity' is used

interchangeably with the term 'electricity available for distribution'.

**Electricity undertaking** 

An electricity undertaking is an undertaking concerned with the generation or transmission and distribution of electricity, including electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use

by these undertakings.

Index of physical volume of electricity production

A statistical measure of the change in the volume of production of electricity in a given period and the volume of production of electricity in the base period. The base period is 2010. The production in the base period is set at 100.

**Industry** An industry consists of a group of undertakings or establishments engaged in the

same or similar kinds of economic activity. Industries are defined in the 1993 System of National Accounts (1993 SNA) in the same way as in the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No.

09-90-02.

**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

ISIC International Standard Industrial Classification

SIC Standard Industrial Classification of all Economic Activities

Stats SA Statistics South Africa
\* Revised figures

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#### **General information**

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