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Statistical release P4141

Electricity generated and available for distribution (Preliminary)

September 2013

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Enquiries:

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Results for September 2013

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

Actual estimates	September 2013 1/	% change between September 2012 and September 2013	% change between July to September 2012 and July to September 2013	% change between January to September 2012 and January to September 2013
Electricity available for distribution (Gigawatt-hours)	19 294	1,0	1,5	-0,7
Index of the physical volume of electricity production (2010=100)	97,4	-1,3	-0,6	-0,3

1/ Preliminary.

Seasonally adjusted estimates	September 2013	% change between August and September 2013	% change between April to June 2013 and July to September 2013
Electricity available for distribution (Gigawatt-hours)	19 546	-1,6	1,3
Index of the physical volume of electricity production (2010=100)	98,6	-1,3	0,2

Consumption of electricity

The actual volume of electricity consumption increased by 1,0% year-on-year in September 2013. Seasonally adjusted electricity consumption decreased by 1,6% month-on-month in September 2013, following a month-on-month increase of 0,4% in August 2013. Seasonally adjusted electricity consumption increased by 1,3% in the third quarter of 2013 compared with the previous quarter.

Production of electricity

The actual estimated electricity production decreased by 1,3% year-on-year in September 2013. Seasonally adjusted electricity production decreased by 1,3% month-on-month in September 2013, following a month-on-month increase of 0,4% in August 2013. Seasonally adjusted electricity production increased by 0,2% in the third 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 increased by 1,1% (202 Gigawatt-hours) in September 2013 compared with September 2012. Increases were reported in six of the nine provinces, with the largest volume increase recorded for Limpopo (135 Gigawatt-hours). Gauteng recorded the largest volume decrease (-131 Gigawatt-hours) over this period.

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

Gigawatt-hours	Seasonally adjusted quantity April to June 2013	Seasonally adjusted quantity July to September 2013	% change between April to June 2013 and July to September 2013	Quantity difference between April to June 2013 and July to September 2013
Electricity produced	64 383	64 506	0,2	123
Electricity available for distribution in South Africa	58 440	59 211	1,3	771

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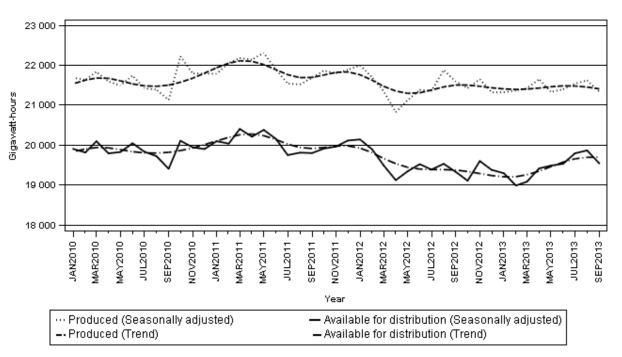
Table C – Comparison of actual estimates between the third quarter of 2013 and the third quarter of 2012

Gigawatt-hours	Actual volume July to September 2012	Actual volume July to September 2013	% change between July to September 2012 and July to September 2013	Quantity difference between July to September 2012 and July to September 2013
Electricity produced	67 016	66 640	-0,6	-376
Purchased outside South Africa (import) 1/	1 842	2 734	48,4	892
Consumed in power stations and auxiliary systems	4 861	4 738	-2,5	-123
Sold outside South Africa (export) 2/	3 810	3 534	-7,2	-276
Electricity available for distribution in South Africa	60 188	61 102	1,5	914

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

2/ Physical energy flowing out of 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

Tables

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

Month		Gigawatt-hours								
	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				
Мау	20 365	19 548	20 435	20 938	19 869	19 991				
June	20 515	19 819	20 800	20 914	20 274	20 270				
July	21 610	21 151	21 307	21 162	20 743	21 119				
August	20 736	20 398	20 540	20 617	20 345	20 689				
September	19 725	19 382	19 256	19 619	19 100	1/ 19 294				
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					

1/ Preliminary.

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

Month	Percentage change 2/								
	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			
Мау	-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	1,8			
August	-2,9	-1,6	0,7	0,4	-1,3	1,7			
September	0,0	-1,7	-0,7	1,9	-2,6	1,0			
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				

2/ 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	19 765	18 422	19 906	20 100	20 144	19 298	-0,4				
February	19 917	18 427	19 816	20 039	19 894	18 989	-1,6				
March	19 573	18 642	20 099	20 407	19 497	19 086	0,5				
April	19 892	18 667	19 794	20 212	19 124	19 418	1,7				
Мау	19 638	18 878	19 828	20 383	19 344	19 488	0,4				
June	19 775	19 061	20 048	20 157	19 525	19 534	0,2				
July	20 102	19 644	19 837	19 752	19 388	19 795	1,3				
August	19 866	19 556	19 724	19 813	19 534	19 870	0,4				
September	19 897	19 539	19 408	19 802	19 327	19 546	-1,6				
October	19 875	19 642	20 111	19 915	19 110						
November	18 934	19 511	19 947	19 966	19 603						
December	18 390	19 735	19 903	20 116	19 381						

Month		Base: 2010=100								
Month	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	102,2				
July	108,6	106,4	106,6	106,8	105,7	106,4				
August	104,0	102,7	103,2	103,7	105,4	104,2				
September	98,8	98,5	97,0	99,4	98,7	1/ 97,4				
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					

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

1/ Preliminary.

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

•• 4	Percentage change 2/								
Month	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			
Мау	-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	0,7			
August	-3,3	-1,3	0,5	0,5	1,6	-1,1			
September	-0,7	-0,3	-1,5	2,5	-0,7	-1,3			
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				

2/ 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	101,9	92,2	100,2	100,6	101,6	98,5	0,0				
February	101,1	92,5	99,9	101,9	100,2	98,7	0,2				
March	99,4	93,4	100,9	102,5	98,7	99,0	0,3				
April	100,2	94,5	99,8	102,3	96,2	100,0	1,0				
May	99,9	95,3	99,3	103,1	97,6	98,6	-1,4				
June	99,3	95,4	100,4	101,1	98,8	98,9	0,3				
July	100,7	98,6	99,0	99,5	98,7	99,5	0,6				
August	99,3	98,1	98,8	99,4	101,1	99,9	0,4				
September	99,6	99,2	97,6	100,2	99,7	98,6	-1,3				
October	101,3	97,8	102,7	101,0	99,0						
November	96,8	97,6	100,7	100,7	100,0						
December	92,3	98,8	100,7	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				
Мау	761	937	1 074	907	1 066	919				
June	1 002	1 088	1 019	1 009	1 044	881				
July	1 089	1 040	1 117	979	903	965				
August	1 076	1 072	1 109	1 108	465	930				
September	1 044	920	1 068	974	474	2/ 839				
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					

Physical energy flowing into South Africa as measured by the metering systems at the South African borders.
 Preliminary.

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

Month	Gigawatt-hours								
	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			
Мау	1 120	1 109	1 177	1 241	1 322	1 196			
June	1 162	1 175	1 132	1 174	1 335	1 158			
July	1 249	1 223	1 206	1 247	1 350	1 183			
August	1 220	1 235	1 275	1 298	1 295	1 185			
September	1 203	1 285	1 248	1 288	1 165	2/ 1 166			
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				

1/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

2/ Preliminary.

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				Gigawatt-hours		
		September 2012	August 2013	September 2013 1/	% change between September 2012 and September 2013	Difference between September 2012 and September 2013
Total - All producers	Electricity produced	21 351	22 549	21 076	-1,3	-275
	Purchased outside South Africa (import) 2/	474	930	839	77,0	365
	Consumed in power stations and auxiliary systems	1 560	1 604	1 455	-6,7	-105
	Sold outside South Africa (export) 3/	1 165	1 185	1 166	0,1	1
	Electricity available for distribution in South Africa	19 100	20 689	19 294	1,0	194
ESKOM	Electricity produced	20 534	21 462	20 157	-1,8	-377
	Purchased outside South Africa (import) 2/	474	930	839	77,0	365
	Consumed in power stations and auxiliary systems	1 495	1 523	1 380	-7,7	-115
	Sold outside South Africa (export) 3/	1 165	1 185	1 166	0,1	1
	Electricity available for distribution in South Africa	18 348	19 683	18 450	0,6	102

1/ Preliminary.

2/ 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 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (cumulative figures)

			Gigav	vatt-hours	
		January to September 2012	January to September 2013 1/	% change between January to September 2012 and January to September 2013	Difference between January to September 2012 and January to September 2013
Total - All producers	Electricity produced	194 161	193 509	-0,3	-652
	Purchased outside South Africa (import) 2/	8 113	6 631	-18,3	-1 482
	Consumed in power stations and auxiliary systems	14 052	14 045	0,0	-7
	Sold outside South Africa (export) 3/	11 342	10 417	-8,2	-925
	Electricity available for distribution in South Africa	176 879	175 680	-0,7	-1 199
ESKOM	Electricity produced	186 303	185 054	-0,7	-1 249
	Purchased outside South Africa (import) 2/	8 113	6 631	-18,3	-1 482
	Consumed in power stations and auxiliary systems	13 395	13 440	0,3	45
	Sold outside South Africa (export) 3/	11 342	10 417	-8,2	-925
	Electricity available for distribution in South Africa	169 681	167 830	-1,1	-1 851

1/ Preliminary.

2/ 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.

						Gigawat	t-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	17 383	7 386	3 767	6 434	30 060	19 367	45 667	25 456	8 767	164 287
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
	Мау	1 941	869	441	644	3 455	2 088	5 346	2 871	913	18 568
	June	1 902	857	440	689	3 428	2 149	5 344	2 975	994	18 778
	July	1 963	909	461	734	3 636	2 212	5 638	2 973	1 062	19 588
	August	1 970	869	456	702	3 576	2 185	5 415	2 969	1 060	19 202
	September 2/	1 898	786	449	619	3 390	2 114	4 850	2 751	1 085	17 942
	Year to date	17 220	7 478	4 069	5 918	30 837	18 643	44 645	25 405	8 666	162 881

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

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

- 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.
 2 This statistical release reflects indices of the physical volume of electricity
 - 2 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.
 - 3 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** 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 September 2013 was 100%. The improved collection rate for August 2013 was 100%.
- **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** 9 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 establishment within each size category. An electricity undertaking or establishment with a total generating capacity of less than 500 kilowatt is excluded from the sample.
 - **10** The survey is conducted by mail, email and telephone. Information is collected from a sample of 25 electricity undertakings or establishments.

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

 indices
 Indices
 Indices
 Indices

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.
	13	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	14	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 http://www.statssa.gov.za/publications/P4141/electricity seasonal adjustment_note_2012.pdf
Trend cycle	15	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	16	 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 of figures	17	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		uses of this release the term 'consumption of electricity' is used leably with the term 'electricity available for distribution'.			
Electricity undertaking	transmissi which, as	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	given peri	al measure of the change in the volume of production of electricity in a od and the volume of production of electricity in the base period. The d 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 <i>System of National Accounts (1993 SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities</i> (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	ISIC I SIC Stats SA	Gross domestic product International Standard Industrial Classification Standard Industrial Classification of all Economic Activities Statistics South Africa Revised figures			

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