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Statistical release P4141

Electricity generated and available for distribution (Preliminary)

April 2011

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

Actual estimates	April 2011 1/	% change between April 2010 and April 2011	% change between February to April 2010 and February to April 2011	% change between January to April 2010 and January to April 2011
Electricity available for distribution				
(Gigawatt-hours)	19 566	2,4	1,9	1,7
Index of the physical volume of electricity				
production (2005=100)	104,7	2,6	2,3	1,8

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1/ Preliminary.

Seasonally adjusted estimates	April 2011	% change between March and April 2011	% change between November 2010 to January 2011 and February to April 2011
Electricity available for distribution (Gigawatt-hours)	20 496	0,2	2,0
Index of the physical volume of electricity production (2005=100)	109,2	0,1	2,0

Consumption of electricity

The actual estimated volume of electricity consumed in April 2011 increased by 2,4% (464 Gigawatt-hours) compared with April 2010 (see Tables A, 2 and 9a). Electricity consumption for the three months ended April 2011 increased by 1,9% (1 064 Gigawatt-hours) compared with the three months ended April 2010 (see Tables A and C). Seasonally adjusted electricity consumption increased by 2,0% in the three months ended April 2011 compared with the three months ended January 2011 (see Tables A and B).

Production of electricity

The actual estimated production of electricity increased by 2,6% in April 2011 compared with April 2010 (see Tables A and 5). The estimated production of electricity for the three months ended April 2011 increased by 2,3% compared with the three months ended April 2010 (see Table A). Seasonally adjusted electricity production increased by 2,0% in the three months ended April 2011 compared with the three months ended January 2011 (see Tables A and B).

Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces increased by 0,4% (288 Gigawatt-hours) for the first four months of 2011 compared with the first four months of 2010. This rise was driven by increases reported in five of the nine provinces, of which the biggest increase was reported in Mpumalanga (5,2% or 581 Gigawatt-hours) (see Table 10).

International trade in electricity

The volume of electricity purchased from outside South African borders in the first four months of 2011 decreased by 6,0% (from 4 088 Gigawatt-hours to 3 842 Gigawatt-hours) compared with the same period in 2010. The volume of electricity sold to neighbouring countries decreased by 3,1% (-148 Gigawatt-hours) during the above-mentioned period (see Table 9b).

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended April 2011 and the previous three months

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Gigawatt-hours	Seasonally adjusted quantity November 2010 to January 2011	Seasonally adjusted quantity February to April 2011	% change between November 2010 to January 2011 and February to April 2011	Quantity difference between November 2010 to January 2011 and February to April 2011
Electricity produced	65 642	66 948	2,0	1 306
Electricity available for distribution in South Africa	60 148	61 324	2,0	1 176

Table C – Comparison of actual estimates between the three months ended April 2011 and the three months ended April 2010

Gigawatt-hours	Actual volume February to April 2010	Actual volume February to April 2011	% change between February to April 2010 and February to April 2011	Quantity difference between February to April 2010 and February to April 2011	
Electricity produced	62 434	63 829	2,3	1 395	
Purchased outside South Africa (import) 1/	2 966	2 754	-7,1	-212	
Consumed in power stations and auxiliary systems	4 381	4 564	4,2	183	
Sold outside South Africa (export) 2/	3 550	3 486	-1,8	-64	
Electricity available for distribution in South Africa	57 469	58 533	1,9	1 064	

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: 2006 – 2011

Month	Gigawatt-hours								
MOILII	2006	2007	2008	2009	2010	2011			
January	18 603	19 561	19 256	17 919	19 396	19 616			
February	17 396	18 301	18 668	16 757	18 181	18 455			
March	18 982	20 160	19 603	18 694	20 186	20 512			
April	18 122	18 982	19 127	17 934	19 102	1/ 19 566			
Мау	20 312	20 901	20 365	19 548	20 435				
June	20 166	21 020	20 515	19 819	20 800				
July	20 632	21 780	21 610	21 151	21 307				
August	20 307	21 353	20 736	20 398	20 540				
September	18 987	19 732	19 725	19 382	19 256				
October	19 663	20 435	20 138	19 899	20 371				
November	19 244	19 785	18 640	19 248	19 702				
December	18 909	19 160	17 541	18 850	18 996				
Year	231 323	241 170	235 924	229 599	238 272				

1/ Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2006 – 2011

Month	Percentage change 2/									
MOILII	2006	2007	2008	2009	2010	2011				
January	2,5	5,1	-1,6	-6,9	8,2	1,1				
February	1,3	5,2	2,0	-10,2	8,5	1,5				
March	2,7	6,2	-2,8	-4,6	8,0	1,6				
April	-0,1	4,7	0,8	-6,2	6,5	2,4				
Мау	5,7	2,9	-2,6	-4,0	4,5					
June	6,2	4,2	-2,4	-3,4	4,9					
July	5,0	5,6	-0,8	-2,1	0,7					
August	5,8	5,2	-2,9	-1,6	0,7					
September	3,3	3,9	-0,0	-1,7	-0,7					
October	2,8	3,9	-1,5	-1,2	2,4					
November	3,9	2,8	-5,8	3,3	2,4					
December	3,7	1,3	-8,4	7,5	0,8					
Year	3,6	4,3	-2,2	-2,7	3,8					

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: 2006 – 2011

	Gigawatt-hours										
Month	2006	2007	2008	2009	2010	2011	% change between current and previous month				
January	18 967	19 969	19 720	18 376	19 936	20 210	1,6				
February	18 930	19 956	20 465	18 395	19 996	20 373	0,8				
March	18 967	20 163	19 606	18 664	20 127	20 455	0,4				
April	19 074	19 968	20 136	18 826	20 005	20 496	0,2				
Мау	19 549	20 139	19 673	18 943	19 824						
June	19 408	20 219	19 714	19 069	20 012						
July	19 149	20 123	19 892	19 410	19 522						
August	19 367	20 327	19 712	19 406	19 531						
September	19 173	19 885	19 850	19 499	19 331						
October	19 441	20 195	19 865	19 619	20 065						
November	19 549	20 115	18 976	19 582	20 054						
December	19 680	19 989	18 303	19 708	19 884						

Month		Base: 2005=100									
Month	2006	2007	2008	2009	2010	2011					
January	99,8	103,9	105,3	95,0	103,4	104,0					
February	94,0	97,2	99,7	88,5	96,5	98,9					
March	103,3	107,8	105,6	99,3	107,4	109,2					
April	98,0	100,9	102,0	96,1	102,0	1/ 104,7					
Мау	108,1	111,9	109,6	104,5	108,5						
June	107,3	112,5	108,8	104,8	110,1						
July	110,8	116,6	115,1	112,8	113,0						
August	109,1	114,1	110,3	108,8	109,4						
September	101,8	105,5	104,8	104,4	102,8						
October	107,2	109,1	109,4	105,6	110,8						
November	103,3	106,9	101,4	102,6	105,9						
December	100,9	104,6	93,6	100,3	102,1						
Year	103,6	107,6	105,5	101,9	106,0						

Table 4 – Indices of the physical volume of electricity production: 2006 – 2011

1/ Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2006 – 2011

Month	Percentage change 2/								
WOITI	2006	2007	2008	2009	2010	2011			
January	2,3	4,1	1,3	-9,8	8,8	0,6			
February	2,5	3,4	2,6	-11,2	9,0	2,5			
March	3,1	4,4	-2,0	-6,0	8,2	1,7			
April	-0,1	3,0	1,1	-5,8	6,1	2,6			
Мау	5,1	3,5	-2,1	-4,7	3,8				
June	5,6	4,8	-3,3	-3,7	5,1				
July	5,0	5,2	-1,3	-2,0	0,2				
August	5,9	4,6	-3,3	-1,4	0,6				
September	2,7	3,6	-0,7	-0,4	-1,5				
October	4,6	1,8	0,3	-3,5	4,9				
November	3,9	3,5	-5,1	1,2	3,2				
December	2,7	3,7	-10,5	7,2	1,8				
Year	3,7	3,8	-2,0	-3,4	4,0				

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: 2006 – 2011

		Base: 2005=100										
Month	2006	2007	2008	2009	2010	2011	% change between current and previous month					
January	102,3	106,7	108,3	98,0	106,8	107,7	0,9					
February	102,9	106,6	109,8	97,6	106,7	109,5	1,7					
March	103,1	107,6	105,5	99,2	107,3	109,1	-0,4					
April	102,8	105,9	107,1	100,7	106,5	109,2	0,1					
Мау	104,2	108,0	105,9	101,2	105,1							
June	103,6	108,7	105,1	101,4	106,5							
July	102,7	107,7	106,1	103,7	103,7							
August	104,0	108,6	104,9	103,7	104,2							
September	102,8	106,5	105,7	105,3	103,5							
October	104,5	106,3	106,3	102,4	107,5							
November	104,7	108,2	102,6	103,7	107,1							
December	105,0	108,9	97,6	104,7	106,7							

Table 7 – Total volume of electricity imported: 2006 – 2011 1/

Manéh	Gigawatt-hours								
wonth	2006	2007	2008	2009	2010	2011			
January	872	1 088	638	1 102	1 122	1 088			
February	646	942	885	999	995	730			
March	581	973	802	1 064	1 040	1 112			
April	587	1 055	844	906	931	2/ 912			
Мау	879	900	761	937	1 074				
June	881	880	1 002	1 088	1 019				
July	926	984	1 089	1 040	1 117				
August	930	1 045	1 076	1 072	1 109				
September	971	1 026	1 044	920	1 068				
October	682	1 040	645	1 115	770				
November	862	796	711	940	1 018				
December	965	619	1 075	1 112	930				
Year	9 782	11 348	10 572	12 295	12 193				

1/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.2/ Preliminary.

Table 8 – Total volume of electricity exported: 2006 – 2011 1/

Month	Gigawatt-hours								
	2006	2007	2008	2009	2010	2011			
January	1 056	1 134	1 280	1 096	1 217	1 133			
February	1 050	1 060	1 101	979	1 128	1 069			
March	1 129	1 231	1 136	1 100	1 252	1 279			
April	1 017	1 132	998	1 086	1 170	2/ 1138			
Мау	1 046	1 203	1 120	1 109	1 177				
June	1 102	1 256	1 162	1 175	1 132				
July	1 239	1 301	1 249	1 223	1 206				
August	1 262	1 252	1 220	1 235	1 275				
September	1 239	1 186	1 203	1 285	1 248				
October	1 311	1 252	1 258	1 288	1 338				
November	1 186	1 256	1 252	1 213	1 316				
December	1 129	1 233	1 189	1 263	1 209				
Year	13 766	14 496	14 168	14 052	14 668				

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

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					
		April 2010	March 2011	April 2011 1/	% change between April 2010 and April 2011	Difference between April 2010 and April 2011	
Total - All	Electricity produced	20 815	22 280	21 367	2,6	552	
producers	Purchased outside South Africa (import) 2/	931	1 112	912	-2,0	-19	
	Consumed in power stations and auxiliary systems	1 474	1 601	1 575	6,9	101	
	Sold outside South Africa (export) 3/	1 170	1 279	1 138	-2,7	-32	
	Electricity available for distribution in South Africa	19 102	20 512	19 566	2,4	464	
ESKOM	Electricity produced	20 281	21 379	20 718	2,2	437	
	Purchased outside South Africa (import) 2/	931	1 112	912	-2,0	-19	
	Consumed in power stations and auxiliary systems	1 415	1 537	1 528	8,0	113	
	Sold outside South Africa (export) 3/	1 170	1 279	1 138	-2,7	-32	
	Electricity available for distribution in South Africa	18 627	19 674	18 964	1,8	337	

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)

		Gigawatt-hours					
		January to April 2010	January to April 2011 1/	% change between January to April 2010 and January to April 2011	Difference between January to April 2010 and January to April 2011		
Total - All	Electricity produced	83 547	85 062	1,8	1 515		
producers	Purchased outside South Africa (import) 2/	4 088	3 842	-6,0	-246		
	Consumed in power stations and auxiliary systems	6 003	6 136	2,2	133		
	Sold outside South Africa (export) 3/	4 767	4 619	-3,1	-148		
	Electricity available for distribution in South Africa	76 865	78 149	1,7	1 284		
ESKOM	Electricity produced	81 271	81 850	0,7	579		
	Purchased outside South Africa (import) 2/	4 088	3 842	-6,0	-246		
	Consumed in power stations and auxiliary systems	5 760	5 880	2,1	120		
	Sold outside South Africa (export) 3/	4 767	4 619	-3,1	-148		
	Electricity available for distribution in South Africa	74 833	75 192	0,5	359		

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.

		Gigawatt-hours									
Period		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2010	January	1 932	780	404	751	3 540	2 182	4 806	2 845	991	18 231
*	February	1 842	719	383	706	3 281	2 029	4 592	2 658	917	17 127
	March	2 037	809	405	780	3 629	2 273	5 086	2 926	1 032	18 977
	April	1 873	750	362	735	3 432	2 100	4 959	2 813	970	17 994
	Мау	1 931	825	365	788	3 550	2 241	5 468	3 080	979	19 227
	June	1 946	828	378	813	3 559	2 159	5 836	3 011	991	19 521
	July	2 013	877	400	824	3 684	2 204	5 978	2 948	1 062	19 990
	August	1 968	827	386	779	3 595	2 167	5 360	2 802	1 038	18 922
	September	1 851	784	383	675	3 474	2 094	4 857	2 580	1 054	17 752
	October	1 911	846	429	724	3 577	2 276	5 009	2 907	1 088	18 767
	November	1 882	820	406	703	3 433	2 201	4 911	2 968	1 033	18 357
	December	1 907	781	418	694	3 371	2 004	4 645	2 945	1 044	17 809
	Year	23 093	9 646	4 719	8 972	42 125	25 930	61 507	34 483	12 199	222 674
	Year to date	7 684	3 058	1 554	2 972	13 882	8 584	19 443	11 242	3 910	72 329
2011	January	1 962	777	408	721	3 417	2 187	4 738	3 052	1 021	18 283
*	February	1 881	734	372	665	3 256	2 044	4 394	2 808	937	17 091
	March	2 031	773	417	774	3 631	2 292	4 955	3 017	1 063	18 953
	April 2/	1 877	726	389	753	3 432	2 159	5 016	2 946	992	18 290
	Year to date	7 751	3 010	1 586	2 913	13 736	8 682	19 103	11 823	4 013	72 617

Table 10 – Total volume of electricity delivered by Eskom to provinces for 2010 and 2011 1/

Wholesale energy as delivered by Eskom to the various provinces.
 Preliminary.
 * Revised.

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.
 - **2** This statistical release reflects indices of the physical volume of electricity production on the basis of 2005=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** 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.
- **Response rate 7** The response rate for the survey on electricity generated and available for distribution for April 2011 was 99%.
- **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 methodology and design All statistical units are stratified by type of 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.
 - **10** The survey is conducted by mail, email and telephone. Information is collected from a sample of 22 electricity undertakings or establishments.

 Monthly
 11
 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-11 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 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.
Trend cycle	15	The trend is the long-term pattern or movement of a time series. The X-11 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; andSA Statistics.
Unpublished statistics	17	In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as computer printouts or on CD. Generally a charge is made for providing unpublished statistics.
Rounding-off of figures	18	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 2005. 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 (SIC)</i> , 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	GDPGross domestic productISICInternational Standard Industrial ClassificationSICStandard Industrial Classification of all Economic ActivitiesStats SAStatistics South Africa*Revised figures				

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