

# Statistical release P4141

# Electricity generated and available for distribution (Preliminary)

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# Contents

# Page

SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION	
(FEBRUARY 2010)	2
Key figures	2
Table A – Selected key figures regarding electricity generated and available for distribution for February 2010	
	Z
Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution         between the three months ended February 2010 and the previous three months	3
Table C – Comparison of actual estimates between the three months ended February 2010 and the three months         ended       February 2009	3
Figure 1 – Electricity produced and available for distribution in South Africa from 2007 to 2010	4
Table 1 – Total volume of electricity available for distribution in South Africa: 2005 to 2010	5
Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2005 to 2010	5
Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2005 to 2010	6
Table 4 – Indices of the physical volume of electricity production: 2005 to 2010	7
Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2005 to 2010	7
Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2005 to 2010	8
Table 7 – Total volume of electricity imported: 2005 to 2010	9
Table 8 – Total volume of electricity exported: 2005 to 2010	9
Table 9a – Electricity produced and consumed in power stations, purchased and sold outside South Africa and         available for distribution in South Africa (monthly figures)	10
Table 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and	
available for distribution in South Africa (cumulative figures)	10
Table 10 – Electricity delivered by Eskom to provinces for 2009 and 2010	11
Explanatory Notes	
Glossary	14
General information	15

1

# SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (FEBRUARY 2010)

#### **Key figures**

Table A – Selected key figures regarding electricity generated and available for distribution for February 2010

Actual estimates	February 2010 1/	% change between February 2009 and February 2010	% change between December 2008 to February 2009 and December 2009 to February 2010	% change between January to February 2009 and January to February 2010
Electricity available for distribution (Gigawatt-hours)	18 184	8,5	8,1	8,4
Index of the physical volume of electricity production (2005=100)	96,5	9,1	8,4	8,9

1/ Preliminary.

Seasonally adjusted estimates	February 2010	% change between January and February 2010	% change between September to November 2009 and December 2009 to February 2010
Electricity available for distribution	40 700		0.7
(Gigawatt-hours)	19 789	0,0	0,7
Index of the physical volume of electricity			
production (2005=100)	105,5	-0,4	1,0

#### **Key findings**

#### **Consumption of electricity**

The actual estimated volume of electricity consumed in February 2010 increased by 8,5% (1 427 Gigawatt-hours) compared with February 2009 (see Tables A, 2 and 9a). Electricity consumption for the three months ended February 2010 increased by 8,1% (4 215 Gigawatt-hours) compared with the three months ended February 2009 (see Tables A and C). Electricity consumption, after seasonal adjustment, for the three months ended February 2010 increased by 0,7% compared with the three months ended November 2009 (see Tables A and B).

#### **Production of electricity**

The actual estimated production of electricity in February 2010 increased by 9,1% (1 646 Gigawatt-hours) compared with February 2009 (see Tables A, 5 and 9a). The estimated production of electricity for the three months ended February 2010 increased by 8,4% (4 731 Gigawatt-hours) compared with the three months ended February 2009 (see Tables A and C). Electricity production, after seasonal adjustment, for the three months ended February 2010 increased by 1,0% compared with the three months ended November 2009 (see Tables A and B).

#### Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces for the first two months of 2010 increased by 10,1% (3 239 Gigawatt-hours) compared with the first two months of 2009. Increases were reported for all the nine provinces ranging from 1,5% for Northern Cape to 24,5% for Mpumalanga.

#### International trade in electricity

The volume of electricity purchased from outside South African borders increased from 2 101 Gigawatt-hours in the first two months of 2009 to 2 117 Gigawatt-hours in the first two months of 2010, representing an increase of 0,8% (16 Gigawatt-hours). The volume of electricity sold to neighbouring countries during this period increased by 13,0% (270 Gigawatt-hours) compared with the first two months of 2009 (see Table 9b).

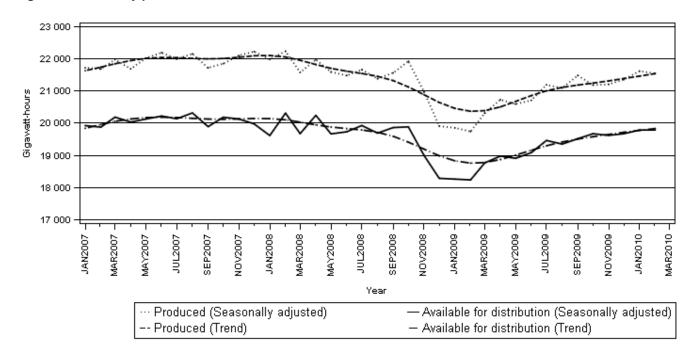
#### Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended February 2010 and the previous three months

Gigawatt-hours	Seasonally adjusted quantity September to November 2009	Seasonally adjusted quantity December 2009 to February 2010	% change between September to November 2009 and December 2009 to February 2010	Quantity difference between September to November 2009 and December 2009 to February 2010
Electricity produced	63 883	64 526	1,0	643
Electricity available for distribution in South Africa	58 814	59 255	0,7	441

# Table C – Comparison of actual estimates between the three months ended February 2010 and the three months ended February 2009

Gigawatt-hours	Actual quantity December 2008 to February 2009	Actual quantity December 2009 to February 2010	% change between December 2008 to February 2009 and December 2009 to February 2010	Quantity difference between December 2008 to February 2009 and December 2009 to February 2010
Electricity produced	56 553	61 284	8,4	4 731
Purchased outside South Africa (import)	3 176	3 229	1,7	53
Consumed in power stations and auxiliary systems	4 250	4 473	5,2	223
Sold outside South Africa (export)	3 264	3 608	10,5	344
Electricity available for distribution in South Africa	52 217	56 432	8,1	4 215

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa from January 2007 to February 2010.





P J Lehohla Statistician-General

## **Detailed results: Tables**

Month	Gigawatt-hours									
	2005	2006	2007	2008	2009	2010				
January	18 149	18 603	19 561	19 256	17 919	19 398				
February	17 169	17 396	18 301	18 668	16 757	1/ 18 184				
March	18 487	18 982	20 160	19 603	18 694					
April	18 132	18 122	18 982	19 127	17 934					
Мау	19 224	20 312	20 901	20 365	19 548					
June	18 983	20 166	21 020	20 515	19 819					
July	19 657	20 632	21 780	21 610	21 151					
August	19 191	20 307	21 353	20 736	20 398					
September	18 383	18 987	19 732	19 725	19 382					
October	19 127	19 663	20 435	20 138	19 899					
November	18 523	19 244	19 785	18 640	19 248					
December	18 230	18 909	19 160	17 541	18 850					
Year	223 255	231 323	241 170	235 924	229 599					

#### Table 1 – Total volume of electricity available for distribution in South Africa: 2005 – 2010

1/ Preliminary.

#### Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2005 – 2010

Month		Percentage change 2/									
wonth	2005	2006	2007	2008	2009	2010					
January	1,7	2,5	5,1	-1,6	-6,9	8,3					
February	-0,6	1,3	5,2	2,0	-10,2	8,5					
March	0,1	2,7	6,2	-2,8	-4,6						
April	3,5	-0,1	4,7	0,8	-6,2						
Мау	1,7	5,7	2,9	-2,6	-4,0						
June	-1,8	6,2	4,2	-2,4	-3,4						
July	-2,5	5,0	5,6	-0,8	-2,1						
August	-0,4	5,8	5,2	-2,9	-1,6						
September	0,1	3,3	3,9	-0,0	-1,7						
October	2,2	2,8	3,9	-1,5	-1,2						
November	1,1	3,9	2,8	-5,8	3,3						
December	2,7	3,7	1,3	-8,4	7,5						
Year	0,6	3,6	4,3	-2,2	-2,7						

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

		Gigawatt-hours									
Month	2005	2006	2007	2008	2009	2010	% change between current and previous month				
January	18 493	18 940	19 925	19 617	18 261	19 787	0,5				
February	18 640	18 886	19 879	20 314	18 238	19 789	0,0				
March	18 471	18 979	20 190	19 677	18 766						
April	19 083	19 120	20 035	20 245	18 979						
Мау	18 468	19 546	20 131	19 669	18 909						
June	18 257	19 415	20 223	19 734	19 085						
July	18 280	19 159	20 139	19 929	19 465						
August	18 355	19 379	20 319	19 691	19 351						
September	18 604	19 180	19 893	19 865	19 518						
October	18 870	19 412	20 186	19 886	19 674						
November	18 817	19 567	20 131	18 997	19 622						
December	18 994	19 691	19 980	18 288	19 679						

#### Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2005 – 2010

Manth	Base : 2005=100									
Month	2005	2006	2007	2008	2009	2010				
January	97,6	99,8	103,9	105,3	95,0	103,4				
February	91,7	94,0	97,2	99,7	88,5	1/ 96,5				
March	100,2	103,3	107,8	105,6	99,3	<u> </u>				
April	98,1	98,0	100,9	102,0	96,1					
Мау	102,9	108,1	111,9	109,6	104,5					
June	101,6	107,3	112,5	108,8	104,8					
July	105,5	110,8	116,6	115,1	112,8					
August	103,0	109,1	114,1	110,3	108,8					
September	99,1	101,8	105,5	104,8	104,4					
October	102,5	107,2	109,1	109,4	105,6					
November	99,4	103,3	106,9	101,4	102,6					
December	98,2	100,9	104,6	93,6	100,3					
Year	100,0	103,6	107,6	105,5	101,9					

#### Table 4 – Indices of the physical volume of electricity production: 2005 – 2010

1/ Preliminary.

#### Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2005 – 2010

Month		Percentage change 2/									
MOILLI	2005	2006	2007	2008	2008	2010					
January	2,2	2,3	4,1	1,3	-9,8	8,9					
February	-0,5	2,5	3,4	2,6	-11,2	9,1					
March	1,5	3,1	4,4	-2,0	-6,0						
April	3,6	-0,1	3,0	1,1	-5,8						
Мау	0,5	5,1	3,5	-2,1	-4,7						
June	-3,2	5,6	4,8	-3,3	-3,7						
July	-3,7	5,0	5,2	-1,3	-2,0						
August	-1,2	5,9	4,6	-3,3	-1,4						
September	-0,4	2,7	3,6	-0,7	-0,4						
October	0,4	4,6	1,8	0,3	-3,5						
November	0,9	3,9	3,5	-5,1	1,2						
December	2,3	2,7	3,7	-10,5	7,2						
Year	0,1	3,7	3,8	-2,0	-3,4						

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

## Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2005 – 2010

				Base : 2005=1	00		
Month	2005	2006	2007	2008	2009	2010	% change between current and previous month
January	100,1	102,2	106,4	107,7	97,2	105,9	1,2
February	100,3	102,6	106,2	108,9	96,7	105,5	-0,4
March	100,2	103,1	107,6	105,7	99,5		
April	103,0	103,0	106,2	107,6	101,5		
Мау	99,0	104,1	107,9	105,7	100,8		
June	97,9	103,5	108,7	105,2	101,4		
July	97,8	102,7	107,7	106,1	103,8		
August	98,3	104,0	108,5	104,7	103,3		
September	100,1	102,7	106,4	105,6	105,2		
October	100,1	105,0	107,0	107,4	103,8		
November	100,9	104,7	108,2	102,7	103,9		
December	102,3	105,0	108,9	97,5	104,6		

## Table 7 – Total volume of electricity imported: 2005 – 2010

Manth	Gigawatt-hours									
Month	2005	2006	2007	2008	2009	2010				
January	729	872	1 088	638	1 102	1 122				
February	714	646	942	885	999	1/ 995				
March	533	581	973	802	1 064					
April	598	587	1 055	844	906					
Мау	849	879	900	761	937					
June	813	881	880	1 002	1 088					
July	856	926	984	1 089	1 040					
August	883	930	1 045	1 076	1 072					
September	686	971	1 026	1 044	920					
October	836	682	1 040	645	1 115					
November	865	862	796	711	940					
December	837	965	619	1 075	1 112					
Year	9 199	9 782	11 348	10 572	12 295					

9

1/ Preliminary.

#### Table 8 – Total volume of electricity exported: 2005 – 2010

Month	Gigawatt-hours									
WOnth	2005	2006	2007	2008	2009	2010				
January	1 030	1 056	1 134	1 280	1 096	1 217				
February	901	1 050	1 060	1 101	979	1/ 1 128				
March	968	1 129	1 231	1 136	1 100					
April	991	1 017	1 132	998	1 086					
Мау	1 083	1 046	1 203	1 120	1 109					
June	1 096	1 102	1 256	1 162	1 175					
July	1 102	1 239	1 301	1 249	1 223					
August	1 144	1 262	1 252	1 220	1 235					
September	1 134	1 239	1 186	1 203	1 285					
October	1 161	1 311	1 252	1 258	1 288					
November	1 119	1 186	1 256	1 252	1 213					
December	1 155	1 129	1 233	1 189	1 263					
Year	12 884	13 766	14 496	14 168	14 052					

1/ 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					
		February 2009	January 2010	February 2010 1/	% change between February 2009 and February 2010	Difference between February 2009 and February 2010	
Total - All	Electricity produced	18 056	21 113	19 702	9,1	1 646	
producers	Purchased outside South Africa (import)	999	1 122	995	-0,4	-4	
	Consumed in power stations and auxiliary systems	1 319	1 620	1 385	5,0	66	
	Sold outside South Africa (export)	979	1 217	1 128	15,2	149	
	Electricity available for distribution in South Africa	16 757	19 398	18 184	8,5	1 427	
ESKOM	Electricity produced	17 384	20 541	19 151	10,2	1 767	
	Purchased outside South Africa (import)	999	1 122	995	-0,4	-4	
	Consumed in power stations and auxiliary systems	1 239	1 567	1 325	6,9	86	
	Sold outside South Africa (export)	979	1 217	1 128	15,2	149	
	Electricity available for distribution in South Africa	16 165	18 880	17 693	9,5	1 528	

1/ 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 February 2009	January to February 2010 1/	% change between January to February 2009 and January to February 2010	Difference between January to February 2009 and January to February 2010		
Total - All producers	Electricity produced	37 451	40 815	9,0	3 364		
producers	Purchased outside South Africa (import)	2 101	2 117	0,8	16		
	Consumed in power stations and auxiliary systems	2 802	3 005	7,2	203		
	Sold outside South Africa (export)	2 075	2 345	13,0	270		
	Electricity available for distribution in South Africa	34 676	37 582	8,4	2 906		
ESKOM	Electricity produced	36 027	39 692	10,2	3 665		
	Purchased outside South Africa (import)	2 101	2 117	0,8	16		
	Consumed in power stations and auxiliary systems	2 651	2 892	9,1	241		
	Sold outside South Africa (export)	2 075	2 345	13,0	270		
	Electricity available for distribution in South Africa	33 402	36 573	9,5	3 171		

1/ Preliminary.

		Gigawatt-hours									
	Period	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2009	January	1 886	733	408	748	3 368	1 833	4 502	2 265	849	16 592
	February	1 779	625	367	661	3 196	1 721	4 272	2 154	752	15 527
	March	1 995	691	404	739	3 553	1 936	4 716	2 442	875	17 351
	April	1 812	713	350	673	3 410	1 852	4 499	2 476	860	16 645
	Мау	1 852	799	361	735	3 583	2 009	5 270	2 736	935	18 280
	June	1 891	744	368	763	3 529	2 033	5 552	2 711	924	18 515
	July	1 942	789	398	825	3 689	2 188	6 059	2 841	975	19 706
	August	1 982	761	370	776	3 620	2 095	5 600	2 810	993	19 007
	September	1 889	769	383	658	3 515	2 055	4 923	2 762	1 045	17 999
	October	1 878	752	398	704	3 629	2 276	5 005	2 885	1 000	18 527
	November	1 837	761	402	739	3 490	2 221	4 916	2 717	942	18 025
	December	1 840	736	420	719	3 499	2 170	4 651	2 725	947	17 707
	Year	22 583	8 873	4 629	8 740	42 081	24 389	59 965	31 524	11 097	213 881
	Year to date	3 665	1 358	775	1 409	6 564	3 554	8 774	4 419	1 601	32 119
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
	Year to date	3 774	1 499	787	1 457	6 821	4 211	9 398	5 503	1 908	35 358

### Table 10 – Total volume of electricity delivered by Eskom to provinces for 2009 and 2010 1/

1/ Wholesale energy 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 2 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 survey 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 survey electricity. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings. Classification The 1993 edition of the Standard Industrial Classification of all Economic Activities 6 (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 February 2010 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). 9 All statistical units are stratified by type of economic activity according to the Survey Standard Industrial Classification of all Economic Activities (SIC) and measure of methodology size, where measure of size is the volume of electricity generated by the electricity and design 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. production 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 -
		<ul><li>Bulletin of Statistics.</li><li>SA Statistics.</li></ul>
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.
Pre-release policy	19	Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.

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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## **General information**

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