

# Statistical release

# Electricity generated and available for distribution (preliminary)

August 2009

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#### SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (AUGUST 2009)

#### **Key figures**

Table A – Selected key figures regarding electricity generated and available for distribution for August 2009

Actual Estimates	August 2009 1/	% change between August 2008 and August 2009	% change between June to August 2008 and June to August 2009	% change between January to August 2008 and January to August 2009
Electricity available for distribution (Gigawatt-hours)	20 413	-1,6	-2,3	-4,8
Index of the physical volume of electricity production (2005=100)	108,9	-1,3	-2,3	-5,4

#### 1/ Preliminary.

Seasonally adjusted estimates	August 2009	% change between July and August 2009	% change between March to May 2009 and June to August 2009	
Electricity available for distribution (Gigawatt-hours)	19 376	-0,5	2,6	
Index of the physical volume of electricity production (2005=100)	103,6	-0,3	2,7	

#### **Key findings**

#### Seasonally adjusted consumption of electricity increases

Electricity consumption after seasonal adjustment for the three months ended August 2009 increased by 2,6% compared with the preceding three months (see Tables A and B). However, the estimated consumption of electricity in August 2009 was 1,6% (-323 Gigawatt-hours) lower compared with August 2008, which represents the smallest annual decrease recorded for 2009 thus far (see Tables A, 2 and 9a).

#### Production of electricity improves

The estimated production of electricity for the three months ended August 2009 after seasonal adjustment increased by 2,7% compared with the previous three months. Estimated production of electricity for the three months ended August 2009 decreased by 2,3% (-1 573 Gigawatt-hours) compared with the corresponding three months of 2008 (see Tables A and C).

#### Distribution of electricity by Eskom to the provinces lower than a year ago

Electricity distributed to the provinces for the first eight months of 2009 was 4,4% lower (-6 488 Gigawatt-hours) compared with the first eight months of 2008. Lower figures were reported for eight provinces during this period ranging from -10,5% for Mpumalanga to -2,5% for Gauteng. KwaZulu-Natal was the only province with an increase (1,5%) during this period (see Table 10).

#### International trade in electricity

The volume of electricity imported from outside South African borders increased from 7 097 Gigawatt-hours in the first eight months of 2008 to 8 208 Gigawatt-hours in the first eight months of 2009, representing an increase of 15,7% (1 111 Gigawatt-hours). The volume of electricity exported to neighbouring countries for the first eight months of 2009 decreased by 2,8% (-263 Gigawatt-hours) compared with the first eight months of 2008 (see Table 9b).

Table B – Comparison of the seasonally adjusted quantity of electricity generated and available for distribution between the current quarter and the previous quarter

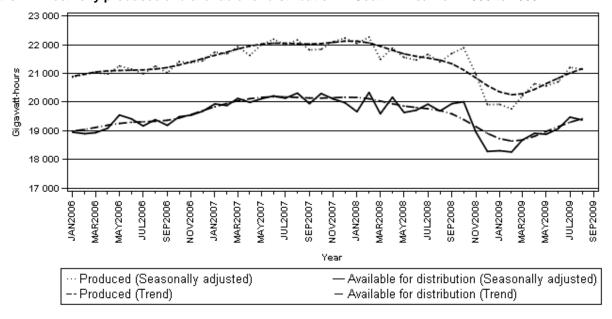
Gigawatt-hours	Seasonally adjusted quantity March to May 2009	Seasonally adjusted quantity June to August 2009	% change between March to May 2009 and June to August 2009	Quantity difference between March to May 2009 and June to August 2009
Electricity produced	61 431	63 070	2,7	1 639
Electricity available for distribution in South Africa	56 463	57 924	2,6	1 461

Table C – Comparison of actual estimates between the current quarter and the corresponding quarter of the previous year

Gigawatt-hours	Actual quantity June to August 2008	Actual quantity June to August 2009	% change between June to August 2008 and June to August 2009	Quantity difference between June to August 2008 and June to August 2009	
Electricity produced	68 212	66 639	-2,3	-1 573	
Purchased outside South Africa (import)	3 167	3 200	1,0	33	
Consumed in power stations and auxiliary systems	4 885	4 823	-1,3	-62	
Sold outside South Africa (export)	3 631	3 633	0,1	2	
Electricity available for distribution in South Africa	62 861	61 384	-2,3	-1 477	

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa from January 2006 to August 2009.

Figure 1 - Electricity produced and available for distribution in South Africa from 2006 to 2009



P J Lehohla Statistician-General

#### **Detailed results: Tables**

Table 1 - Total volume of electricity available for distribution in South Africa: 2004 to 2009

Month	Gigawatt-hours								
	2004	2005	2006	2007	2008	2009			
January	17 850	18 149	18 603	19 561	19 256	17 919			
February	17 277	17 169	17 396	18 301	18 668	16 757			
March	18 476	18 487	18 982	20 160	19 603	18 694			
April	17 524	18 133	18 122	18 982	19 127	17 934			
May	18 909	19 224	20 312	20 901	20 365	19 548			
June	19 337	18 983	20 166	21 020	20 515	19 819			
July	20 156	19 657	20 632	21 780	21 610	21 152			
August	19 265	19 191	20 307	21 353	20 736	1/ 20 413			
September	18 362	18 384	18 987	19 732	19 725				
October	18 714	19 127	19 663	20 435	20 138				
November	18 314	18 523	19 244	19 785	18 640				
December	17 754	18 230	18 909	19 160	17 541				
Year	221 938	223 257	231 323	241 170	235 924				

<sup>1/</sup> Preliminary.

Table 2 - Annual percentage change in electricity available for distribution in South Africa: 2004 to 2009

Month	Percentage change 1/							
	2004	2005	2006	2007	2008	2009		
January	4,4	1,7	2,5	5,1	-1,6	-6,9		
February	6,9	-0,6	1,3	5,2	2,0	-10,2		
March	4,7	0,1	2,7	6,2	-2,8	-4,6		
April	3,7	3,5	-0,1	4,7	0,8	-6,2		
May	4,1	1,7	5,7	2,9	-2,6	-4,0		
June	5,5	-1,8	6,2	4,2	-2,4	-3,4		
July	5,1	-2,5	5,0	5,6	-0,8	-2,1		
August	2,9	-0,4	5,8	5,2	-2,9	-1,6		
September	4,8	0,1	3,3	3,9	-0,0			
October	1,3	2,2	2,8	3,9	-1,5			
November	2,9	1,1	3,9	2,8	-5,8			
December	1,7	2,7	3,7	1,3	-8,4			
Year	4,0	0,6	3,6	4,3	-2,2			

<sup>1/</sup> The percentage change is the change in the volume of electricity available for distribution of the relevant year compared with the volume of electricity available for distribution of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2004 to 2009

				Gigawatt-hour	s		
Month	2004	2005	2006	2007	2008	2009	% change between current and previous month
January	18 199	18 492	18 948	19 936	19 665	18 301	0,1
February	18 749	18 641	18 895	19 879	20 337	18 255	-0,3
March	18 390	18 438	18 930	20 129	19 591	18 679	2,3
April	18 366	19 062	19 086	19 990	20 170	18 907	1,2
Мау	18 158	18 478	19 547	20 118	19 636	18 877	-0,2
June	18 569	18 253	19 414	20 216	19 716	19 074	1,0
July	18 733	18 277	19 166	20 135	19 927	19 474	2,1
August	18 462	18 351	19 387	20 314	19 689	19 376	-0,5
September	18 593	18 606	19 187	19 945	19 946		
October	18 480	18 928	19 487	20 300	20 011		
November	18 615	18 815	19 542	20 109	18 961		_
December	18 548	18 998	19 681	19 979	18 275		

Table 4 – Indices of the physical volume of electricity production: 2004 to 2009

Month			Bas	se : 2005=100		
Month	2004	2005	2006	2007	2008	2009
January	95,5	97,6	99,8	103,9	105,3	95,0
February	92,2	91,7	94,0	97,2	99,7	88,5
March	98,7	100,2	103,3	107,8	105,6	99,3
April	94,7	98,1	98,0	100,9	102,0	96,1
Мау	102,4	102,9	108,1	112,0	109,6	104,5
June	105,0	101,6	107,3	112,5	108,8	104,8
July	109,5	105,5	110,8	116,6	115,1	112,8
August	104,3	103,0	109,1	114,1	110,3	1/ 108,9
September	99,5	99,1	101,8	105,5	104,8	
October	102,1	102,5	107,2	109,1	109,4	
November	98,5	99,4	103,3	106,9	101,4	
December	96,0	98,2	100,9	104,6	93,6	
Year	99,9	100,0	103,6	107,6	105,5	

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2004 to 2009

Month	Percentage change								
	2004	2005	2006	2007	2008	2009			
January	6,6	2,2	2,3	4,1	1,3	-9,8			
February	8,9	-0,5	2,5	3,4	2,6	-11,2			
March	6,2	1,5	3,1	4,4	-2,0	-6,0			
April	5,1	3,6	-0,1	3,0	1,1	-5,8			
May	5,3	0,5	5,1	3,6	-2,1	-4,7			
June	6,6	-3,2	5,6	4,8	-3,3	-3,7			
July	6,8	-3,7	5,0	5,2	-1,3	-2,0			
August	1,9	-1,2	5,9	4,6	-3,3	-1,3			
September	2,6	-0,4	2,7	3,6	-0,7				
October	-0,1	0,4	4,6	1,8	0,3				
November	2,2	0,9	3,9	3,5	-5,1				
December	2,1	2,3	2,7	3,7	-10,5				
Year	4,4	0,1	3,7	3,8	-2,0				

<sup>1/</sup> The percentage change is the change in the index of the physical volume of electricity production of the relevant year compared with the index of the physical volume of electricity production of the previous year expressed as a percentage.

Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2004 to 2009

	Base : 2005=100								
Month	2004	2005	2006	2007	2008	2009	% change between current and previous month		
January	98,0	100,1	102,2	106,5	108,0	97,6	0,1		
February	101,1	100,3	102,7	106,2	109,0	96,8	-0,8		
March	98,7	100,1	103,0	107,4	105,3	99,0	2,3		
April	99,1	102,9	102,8	105,9	107,2	101,1	2,1		
May	98,5	99,0	104,1	107,8	105,6	100,7	-0,4		
June	100,9	97,9	103,6	108,7	105,1	101,4	0,7		
July	101,4	97,8	102,8	107,7	106,1	103,9	2,5		
August	99,6	98,3	104,1	108,6	104,8	103,6	-0,3		
September	100,4	100,2	102,9	106,9	106,3				
October	99,5	100,1	104,9	107,0	107,2				
November	100,1	100,9	104,7	108,3	102,7				
December	100,4	102,4	105,0	108,9	97,5				

Table 7 – Total volume of electricity imported: 2004 to 2009

Month	Gigawatt-hours								
	2004	2005	2006	2007	2008	2009			
January	828	729	872	1 088	638	1 102			
February	811	714	646	942	885	999			
March	863	533	581	973	802	1 064			
April	641	598	587	1 055	844	906			
May	547	849	879	900	761	937			
June	560	813	881	880	1 002	1 088			
July	607	856	926	984	1 089	1 040			
August	618	883	930	1 045	1 076	1/ 1 072			
September	590	686	971	1 026	1 044				
October	536	836	682	1 040	645				
November	746	865	862	796	711				
December	679	837	965	619	1 075				
Year	8 026	9 199	9 782	11 348	10 572				

<sup>1/</sup> Preliminary.

Table 8 - Total volume of electricity exported: 2004 to 2009

Month	Gigawatt-hours								
monan	2004	2005	2006	2007	2008	2009			
January	1 037	1 030	1 056	1 134	1 280	1 096			
February	977	901	1 050	1 060	1 101	979			
March	1 027	968	1 129	1 231	1 136	1 100			
April	951	991	1 017	1 132	998	1 086			
May	944	1 083	1 046	1 203	1 120	1 109			
June	1 057	1 096	1 102	1 256	1 162	1 175			
July	1 140	1 102	1 239	1 301	1 249	1 223			
August	1 049	1 144	1 262	1 252	1 220	1/ 1 235			
September	1 048	1 134	1 239	1 186	1 203				
October	1 112	1 161	1 311	1 252	1 258				
November	1 082	1 119	1 186	1 256	1 252				
December	1 029	1 155	1 129	1 233	1 189				
Year	12 453	12 884	13 766	14 496	14 168				

<sup>1/</sup> 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						
		August 2008	July 2009	August 2009 1/	% Change between August 2008 and August 2009	Difference between August 2008 and August 2009		
Total - All	Electricity produced	22 508	23 022	22 233	-1,2	-275		
producers	Purchased outside South Africa (import)	1 076	1 040	1 072	-0,4	-4		
	Consumed in power stations and auxiliary systems	1 627	1 688	1 657	1,8	30		
	Sold outside South Africa (export)	1 220	1 223	1 235	1,2	15		
	Electricity available for distribution in South Africa	20 736	21 152	20 413	-1,6	-323		
ESKOM	Electricity produced	21 566	22 212	21 431	-0,6	-135		
	Purchased outside South Africa (import)	1 076	1 040	1 072	-0,4	-4		
	Consumed in power stations and auxiliary systems	1 542	1 615	1 578	2,3	36		
	Sold outside South Africa (export)	1 220	1 223	1 235	1,2	15		
	Electricity available for distribution in South Africa	19 880	20 414	19 690	-1,0	-190		

<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 August 2008	January to August 2009 1/	% Change between January to August 2008 and January to August 2009	Difference between January to August 2008 and January to August 2009			
Total - All	Electricity produced	174 774	165 309	-5,4	-9 465			
producers	Purchased outside South Africa (import)	7 097	8 208	15,7	1 111			
	Consumed in power stations and auxiliary systems	12 722	12 282	-3,5	-440			
	Sold outside South Africa (export)	9 266	9 003	-2,8	-263			
	Electricity available for distribution in South Africa	159 880	152 236	-4,8	-7 644			
ESKOM	Electricity produced	167 444	159 416	-4,8	-8 028			
	Purchased outside South Africa (import)	7 097	8 208	15,7	1 111			
	Consumed in power stations and auxiliary systems	11 998	11 692	-2,6	-306			
	Sold outside South Africa (export)	9 266	9 003	-2,8	-263			
	Electricity available for distribution in South Africa	153 275	146 930	-4,1	-6 345			

<sup>1/</sup> Preliminary.

Table 10 – Electricity distributed by Eskom to provinces for 2008 and 2009 1/

	1			Gigawatt-hours							
Period		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2008	January	1 928	749	396	749	3 552	2 207	4 861	2 661	874	17 977
	February	1 839	758	396	700	3 390	2 102	4 640	2 600	898	17 323
	March	1 937	779	393	749	3 363	2 217	4 945	2 801	934	18 118
	April	1 893	753	363	717	3 322	2 089	4 784	2 796	934	17 651
	May	1 985	760	373	796	3 417	2 141	5 414	2 990	1 015	18 891
	June	1 987	834	374	800	3 333	2 142	5 523	2 966	992	18 951
	July	2 065	864	410	839	3 571	2 234	5 919	3 078	1 044	20 024
	August	1 999	845	406	757	3 575	2 180	5 438	2 937	1 039	19 176
	September	1 975	829	419	785	3 460	2 093	5 009	2 806	1 005	18 381
	October	1 952	838	442	803	3 575	2 192	4 983	2 985	1 010	18 780
	November	1 813	750	405	754	3 425	2 052	4 665	2 594	828	17 286
	December	1 872	673	391	737	3 258	1 845	4 292	2 399	848	16 315
	Year	23 245	9 432	4 768	9 186	41 241	25 494	60 473	33 613	11 421	218 873
	Year to date	15 633	6 342	3 111	6 107	27 523	17 312	41 524	22 829	7 730	148 111
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
	May	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 2/	1 982	761	370	776	3 620	2 095	5 600	2 810	993	19 007
	Year to date	15 139	5 855	3 026	5 920	27 948	15 667	40 470	20 435	7 163	141 623

 $<sup>\</sup>ensuremath{\mathrm{1/\,Wholesale}}$  energy as delivered by Eskom to the various provinces.  $\ensuremath{\mathrm{2/\,Preliminary}}.$ 

#### **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 number of electricity units generated and available for distribution in South Africa, the number of units purchased and sold outside South Africa and the number 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.
- 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, including 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 August 2009 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 methodology and design

9

11

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 each month collecting information from a sample of 22 electricity undertakings or establishments.

## Monthly production indices

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

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#### 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, which are weighted according to the original sample, designed in order 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 benchmarks 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 16 publications

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

- Bulletin of Statistics.
- SA Statistics.

## Unpublished 17 statistics

18

19

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 figures

The figures in the tables have, where necessary, 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

 ${\it Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.}\\$ 

#### 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.

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 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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