

Statistical release P4141

Electricity generated and available for distribution (preliminary)

September 2007

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SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (SEPTEMBER 2007)

Key findings

Consumption of electricity increases

The estimated consumption of electricity in September 2007 increased by 4,5% (863 Gigawatt-hours) compared with September 2006 (see tables A and 9a). The estimated volume of electricity consumed (available for distribution) for the three months ending September 2007 increased by 5,1% (3 059 Gigawatt-hours) compared with the three months ending September 2006 (see tables A and C). Electricity consumption after seasonal adjustment for September 2007 decreased by 1,3% compared with the previous month (see table A).

Production of electricity increases

The estimated production of electricity in September 2007 increased by 3,6% (751 Gigawatt-hours) compared with September 2006 (see table 9a), of which Eskom reported an increase of 3,9% (778 Gigawatt-hours) (see table 9a). The estimated production of electricity for the three months ending September 2007 increased by 4,5% (2 938 Gigawatt-hours) compared with the three months ending September 2006 (see tables A and C). However, the estimated production of electricity, after seasonal adjustment, decreased by 2,1% for September 2007 compared with August 2007 (see table A).

Distribution of electricity by Eskom to the provinces increases

Electricity distributed to the provinces increased by 5,7% for the first nine months of 2007 compared with the first nine months of 2006. This increase is not necessarily evident in all of the provinces. Increases were reported for Eastern Cape (22,7% or 1 387 Gigawatt-hours), Northern Cape (11,1% or 378 Gigawatt-hours), North West (8,8% or 1 611 Gigawatt-hours), Mpumalanga (8,8% or 2 055 Gigawatt-hours), Western Cape (6,5% or 1 080 Gigawatt-hours), Free State (6,2% or 424 Gigawatt-hours) and Gauteng (5,6% or 2 534 Gigawatt-hours). However, slightly less electricity was distributed to Kwazulu-Natal (-0,5% or -171 Gigawatt-hours) and Limpopo (-0,6% or -55 Gigawatt-hours) (see table 10).

Key figures

Table A - Selected key figures regarding electricity generated and available for distribution for September 2007

Estimates	September 2007 1/	% change between September 2006 and September 2007	% change between July to September 2006 and July to September 2007	% change between January to September 2006 and January to September 2007
Electricity available for distribution (Gigawatt-hours)	19 850	4,5	5,1	4,9
Index of the physical volume of electricity production (2005=100)	105,5	3,6	4,5	4,1

^{1/} Preliminary.

Seasonally adjusted estimates	September 2007	% change between August and September 2007	% change between April to June 2007 and July to September 2007
Electricity available for distribution (Gigawatt-hours)	20 212	-1,3	1,2
Index of the physical volume of electricity production (2005=100)	107,1	-2,1	1,0

Table B - Percentage change in the seasonally adjusted quantity of electricity generated and available for distribution between the current quarter and the previous quarter

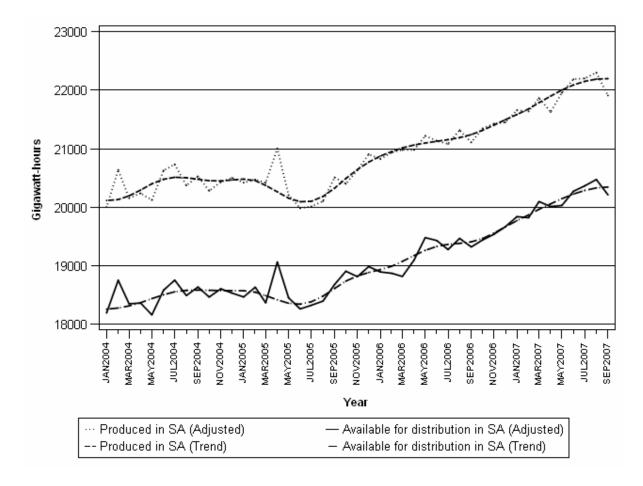
Gigawatt-hours	Seasonally adjusted quantity April to June 2007	Seasonally adjusted quantity July to September 2007	% change between April to June 2007 and July to September 2007	Quantity difference between April to June 2007 and July to September 2007
Electricity produced	65 768	66 408	1,0	640
Electricity available for distribution in South Africa	60 312	61 049	1,2	737

Table C - Percentage change between the current quarter and the corresponding quarter of the previous year

Gigawatt-hours	Actual quantity July to September 2006	Actual quantity July to September 2007	% change between July to September 2006 and July to September 2007	Quantity difference between July to September 2006 and July to September 2007
Electricity produced	65 667	68 605	4,5	2 938
Purchased outside South Africa (import)	2 827	3 045	7,7	218
Consumed in power stations and auxiliary systems	4 828	5 056	4,7	228
Sold outside South Africa (export)	3 740	3 608	-3,5	132
Electricity available for distribution in South Africa	59 926	62 985	5,1	3 059

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa between January 2004 and September 2007. There was a gradual upward movement in the trend cycles from the beginning of the period until August 2004. From August 2004 up until February 2005 the trend cycles moved sideways, followed by a declining trend in both electricity production and consumption between March and June of 2005. From August 2005 to August 2007 the trends moved upwards, but in September 2007 they started to move sideways.

Figure 1 - Electricity produced and available for distribution in South Africa from 2004 to 2007



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Detailed results: Tables

Table 1 - Total volume of electricity available for distribution in South Africa: 2002 to 2007

	2002	2003	2004	2005	2006	2007
January	16 191	17 095	17 850	18 149	18 603	19 560
February	15 215	16 168	17 277	17 169	17 396	18 298
March	16 552	17 655	18 476	18 487	18 982	20 269
April	16 362	16 905	17 524	18 133	18 122	18 984
May	17 852	18 159	18 909	19 224	20 312	20 907
June	18 017	18 330	19 337	18 983	20 166	21 027
July	18 956	19 183	20 156	19 657	20 632	21 785
August	18 064	18 714	19 265	19 191	20 307	21 350
September	17 125	17 526	18 362	18 384	18 987	1\ 19 850
October	17 741	18 480	18 714	19 127	19 663	
November	17 233	17 790	18 314	18 523	19 244	
December	16 712	17 456	17 754	18 230	18 909	
Year	206 020	213 461	221 938	223 257	231 323	

^{1/} Preliminary.

Table 2 - Percentage change in electricity available for distribution in South Africa: 2002 to 2007

			Perc	entage		_
	2002	2003	2004	2005	2006	2007
January	0,8	5,6	4,4	1,7	2,5	5,1
February	2,3	6,3	6,9	-0,6	1,3	5,2
March	1,4	6,7	4,7	0,1	2,7	6,8
April	5,5	3,3	3,7	3,5	-0,1	4,8
May	5,5	1,7	4,1	1,7	5,7	2,9
June	7,3	1,7	5,5	-1,8	6,2	4,3
July	5,2	1,2	5,1	-2,5	5,0	5,6
August	4,4	3,6	2,9	-0,4	5,8	5,1
September	5,2	2,3	4,8	0,1	3,3	4,5
October	5,6	4,2	1,3	2,2	2,8	
November	8,0	3,2	2,9	1,1	3,9	
December	9,8	4,5	1,7	2,7	3,7	
Year	5,1	3,6	4,0	0,6	3,6	

Table 3 - Seasonally adjusted total volume of electricity available for distribution in South Africa: 2002 to 2007

	Gigawatt-hours								
	2002	2003	2004	2005	2006	2007	% change between current and previous month		
January	16 521	17 442	18 194	18 466	18 894	19 838	0,9		
February	16 565	17 605	18 753	18 634	18 871	19 820	-0,1		
March	16 455	17 565	18 350	18 366	18 817	20 096	1,4		
April	17 074	17 686	18 362	19 064	19 094	20 011	-0,4		
May	17 157	17 439	18 160	18 453	19 480	20 029	0,1		
June	17 307	17 599	18 581	18 262	19 430	20 272	1,2		
July	17 597	17 824	18 754	18 325	19 276	20 364	0,5		
August	17 285	17 940	18 490	18 396	19 467	20 473	0,5		
September	17 301	17 766	18 637	18 680	19 321	20 212	-1,3		
October	17 460	18 235	18 465	18 906	19 439				
November	17 514	18 085	18 606	18 814	19 539				
December	17 619	18 324	18 533	18 985	19 666				

Table 4 - Indices of the physical volume of electricity production: 2002 to 2007

	Base : 2005=100							
	2002	2003	2004	2005	2006	2007		
January	84,7	89,6	95,5	97,6	99,8	103,9		
February	79,0	84,7	92,2	91,7	94,0	97,2		
March	85,7	92,9	98,7	100,2	103,3	107,8		
April	85,1	90,1	94,7	98,1	98,0	100,9		
May	94,1	97,2	102,4	102,9	108,1	112,0		
June	94,8	98,5	105,0	101,6	107,3	112,5		
July	99,4	102,5	109,5	105,5	110,8	116,6		
August	94,5	102,4	104,3	103,0	109,1	114,1		
September	90,3	97,0	99,5	99,1	101,8	1/ 105,5		
October	94,3	102,2	102,1	102,5	107,2			
November	91,5	96,4	98,5	99,4	103,3			
December	87,4	94,0	96,0	98,2	100,9	_		
Year	90,1	95,6	99,9	100,0	103,6			

^{1/} Preliminary.

Table 5 - Percentage change in indices of the physical volume of electricity production: 2002 to 2007

	2002	2003	2004	2005	2006	2007
January	-0,1	5,8	6,6	2,2	2,3	4,1
February	1,9	7,2	8,9	-0,5	2,5	3,4
March	1,2	8,4	6,2	1,5	3,1	4,4
April	5,7	5,9	5,1	3,6	-0,1	3,0
May	6,2	3,3	5,3	0,5	5,1	3,6
June	9,0	3,9	6,6	-3,2	5,6	4,8
July	4,0	3,1	6,8	-3,7	5,0	5,2
August	1,7	8,4	1,9	-1,2	5,9	4,6
September	4,5	7,4	2,6	-0,4	2,7	3,6
October	6,7	8,4	-0,1	0,4	4,6	
November	9,2	5,4	2,2	0,9	3,9	
December	10,4	7,6	2,1	2,3	2,7	
Year	5,0	6,2	4,4	0,1	3,7	

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: 2002 to 2007

	Base : 2005=100								
	2002	2003	2004	2005	2006	2007	% change between current and previous month		
January	86,8	92,0	98,1	100,1	102,2	106,3	1,1		
February	86,8	93,0	101,0	100,2	102,6	106,0	-0,3		
March	85,8	93,0	98,7	99,9	102,8	107,1	1,0		
April	89,3	94,4	99,2	102,9	103,0	106,2	-0,8		
May	90,6	93,6	98,7	99,1	104,1	107,8	1,5		
June	90,9	94,4	100,8	97,6	103,2	108,3	0,5		
July	91,8	94,8	101,7	98,2	103,3	108,9	0,6		
August	90,1	97,9	99,8	98,6	104,5	109,4	0,5		
September	90,7	97,7	100,5	100,3	103,2	107,1	-2,1		
October	91,6	99,4	99,4	100,0	104,6				
November	93,0	97,9	100,1	101,0	105,0				
December	92,6	98,9	100,5	102,4	105,1				

Table 7 - Total volume of electricity imported: 2002 to 2007

Month	Gigawatt-hours							
	2002 2003		2004	2005	2006	2007		
January	670	705	828	729	872	1 086		
February	643	637	811	714	646	939		
March	783	706	863	533	581	970		
April	733	547	641	598	587	1 052		
May	658	569	547	849	879	897		
June	704	518	560	813	881	880		
July	702	792	607	856	926	980		
August	721	424	618	883	930	1 041		
September	637	266	590	686	971	1/ 1 024		
October	454	272	536	836	682			
November	477	583	746	865	862			
December	691	720	679	837	965			
Year	7 873	6 739	8 026	9 199	9 782			

^{1/} Preliminary.

Table 8 - Total volume of electricity exported: 2002 to 2007

Month	Gigawatt-hours							
Month	2002	2003	2004	2005	2006	2007		
January	558	578	1 037	1 030	1 056	1 133		
February	478	508	977	901	1 050	1 060		
March	529	607	1 027	968	1 129	1 119		
April	525	619	951	991	1 017	1 127		
May	578	805	944	1 083	1 046	1 193		
June	601	798	1 057	1 096	1 102	1 248		
July	614	944	1 140	1 102	1 239	1 292		
August	605	1 030	1 049	1 144	1 262	1 251		
September	628	1 051	1 048	1 134	1 239	1/ 1 065		
October	626	1 116	1 112	1 161	1 311			
November	600	1 025	1 082	1 119	1 186			
December	608	1 055	1 029	1 155	1 129			
Year	6 950	10 136	12 453	12 884	13 766			

^{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 Gigawatt-hours						
		September 2006	August 2007	September 2007	% Change between September 2006 and September 2007	Difference between September 2006 and September 2007		
Total - All	Electricity produced	20 772	23 281	21 523	3,6	751		
producers	Purchased outside South Africa (import)	971	1 041	1 024	5,5	53		
	Consumed in power stations and auxiliary systems	1 517	1 722	1 631	7,5	114		
	Sold outside South Africa (export)	1 239	1 251	1 065	-14,0	-174		
	Electricity available for distribution in South Africa	18 987	21 350	19 850	4,5	863		
ESKOM	Electricity produced	19 896	22 207	20 674	3,9	778		
	Purchased outside South Africa (import)	971	1 041	1 024	5,5	53		
	Consumed in power stations and auxiliary systems	1 451	1 644	1 565	7,9	114		
	Sold outside South Africa (export)	1 239	1 251	1 065	-14,0	-174		
	Electricity available for distribution in South Africa	18 177	20 353	19 068	4,9	891		

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 September 2006	January to September 2007	% Change between January to September 2006 and January to September 2007	Difference between January to September 2006 and January to September 2007			
Total - All	Electricity produced	190 246	198 054	4,1	7 808			
producers	Purchased outside South Africa (import)	7 273	8 869	21,9	1 596			
	Consumed in power stations and auxiliary systems	13 871	14 403	3,8	532			
	Sold outside South Africa (export)	10 140	10 488	3,4	348			
	Electricity available for distribution in South Africa	173 507	182 030	4,9	8 523			
ESKOM	Electricity produced	182 530	190 190	4,2	7 660			
	Purchased outside South Africa (import)	7 273	8 869	21,9	1 596			
	Consumed in power stations and auxiliary systems	13 151	13 789	4,9	638			
	Sold outside South Africa (export)	10 140	10 488	3,4	348			
	Electricity available for distribution in South Africa	166 511	174 782	5,0	8 271			

1/ Preliminary.

Table 10 - Electricity distributed by Eskom by province for 2006 and 2007 1/

		Gigawatt-hours									
		Western Cape	Eastern Cape	Northern Cape	Free State	Kwazulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2006	January	1 852	626	388	712	3 611	2 073	4 442	2 635	904	17 242
	February	1 703	595	339	721	3 410	1 934	4 129	2 343	1 023	16 197
	March	1 879	639	394	740	3 747	2 019	4 690	2 684	890	17 682
	April	1 809	591	357	730	3 572	1 904	4 514	2 550	874	16 901
	May	1 906	665	374	809	3 826	2 082	5 525	2 784	955	18 925
	June	1 832	670	363	732	3 870	2 093	5 476	2 648	964	18 647
	July	1 946	788	399	810	3 657	2 151	5 707	2 661	998	19 116
	August	1 939	780	391	826	3 563	2 103	5 605	2 560	1 000	18 767
	September	1 828	753	409	736	3 456	1 963	4 963	2 487	993	17 588
	October	1 909	769	435	786	3 590	2 079	5 045	2 644	1 037	18 294
	November	1 867	745	439	762	3 443	1 982	4 965	2 687	958	17 848
	December	1 912	640	439	777	3 429	2 036	4 667	2 705	924	17 529
	Year	22 382	8 261	4 727	9 141	43 174	24 419	59 728	31 388	11 520	214 736
	Year to date	16 694	6 107	3 414	6 816	32 712	18 322	45 051	23 352	8 601	161 065
2007	January	1 955	770	456	780	3 541	2 168	4 809	2 835	930	18 244
	February	1 817	746	410	718	3 326	2 074	4 583	2 561	878	17 113
	March	2 018	816	467	793	3 650	2 299	5 070	2 884	965	18 962
	April	1 861	854	371	769	3 416	2 079	4 758	2 665	915	17 688
	Мау	2 012	951	401	825	3 702	2 279	5 563	2 866	975	19 574
	June*	1 989	828	413	841	3 643	2 231	5 788	2 814	957	19 504
	July	2 007	820	442	884	3 805	2 257	6 013	2 974	966	20 168
	August	2 060	825	417	840	3 738	2 268	5 635	2 918	961	19 662
	September 2/	2 055	884	415	790	3 720	2 278	5 366	2 890	999	19 397
	Year to date	17 774	7 494	3 792	7 240	32 541	19 933	47 585	25 407	8 546	170 312

^{1/} Wholesale energy as delivered by Eskom to the various provinces.2/ Preliminary.* Revised.

Explanatory Notes

1

Introduction

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.

- 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 September 2007 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 methodology and design

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 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

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

Benchmarking 12

The index of physical volume of electricity production should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly electricity generated and available for distribution survey is based on information received from a sample of electricity undertakings and establishments, 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.

13 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 14 adjustment

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 nonseasonal 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 monthto-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

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

- Bulletin of Statistics.
- SA Statistics.

Unpublished 17 statistics

In some cases Stats SA can also make available statistics, which are not published. The statistics can be made available as computer printouts, on diskette or CD. Generally a charge is made for providing unpublished statistics.

Rounding-off figures

18

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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

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Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.

Glossary

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 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

General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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