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# Electricity generated and available for distribution April 2006

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Estimates	April 2006	% change between April 2005 and April 2006	% change between February to April 2005 and February to April 2006	% change between January to April 2005 and January to April 2006
Electricity available for distribution (Gigawatt-hours)	18 121	-0,1	+1,3	+1,6
Index of the physical volume of electricity production (2005=100)	97,9	-0,2	+1,8	+2,0

Seasonally adjusted estimates	April 2006	% change between March and April 2006	% change between November 2005 to January 2006 and February to April 2006
Electricity available for distribution (Gigawatt-hours)	18 967	+0,6	-0,2
Index of the physical volume of electricity production (2005=100)	102,7	-0,7	+0,8

1

## Key findings regarding electricity generated and available for distribution for April 2006

### **Consumption of electricity increases**

The estimated volume of electricity consumed (available for distribution) for the three months ending April 2006 increased by 1,3% (+710 Gigawatt-hours) compared with the corresponding three months ending April 2005 (see tables A and C). The estimated consumption of electricity for the first four months of 2006 increased by 1,6% (+1 164 Gigawatt-hours) compared with the same period of 2005 (see tables A and 7b). The estimated consumption of electricity in April 2006 remained virtually unchanged (-0,1% or -12 Gigawatt-hours) compared with April 2005 (see tables A and 7a).

## Production of electricity increases

The estimated production of electricity for the three months ending April 2006 increased by 1,8% (+1 047 Gigawatthours) compared with corresponding three months ending April 2005 (see table A and C). Furthermore, the estimated production of electricity, after seasonal adjustment, indicated a slight increase of 0,8% (+510 Gigawatthours) in the three months ending April 2006 compared with the previous three months ending January 2006 (see tables A and B). The estimated production of electricity in April 2006 decreased marginally by 0,2% (-39 Gigawatthours) compared with April 2005 (see tables A and 7a). However, electricity production by Eskom increased by 1,3% (+ 243 Gigawatt-hours) in April 2006 compared with April 2005, production reported by the other producers (manufacturers, mines, etc) decreased by 29,8% during this period mainly due to maintenance of generators at some of the manufacturing plants.

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

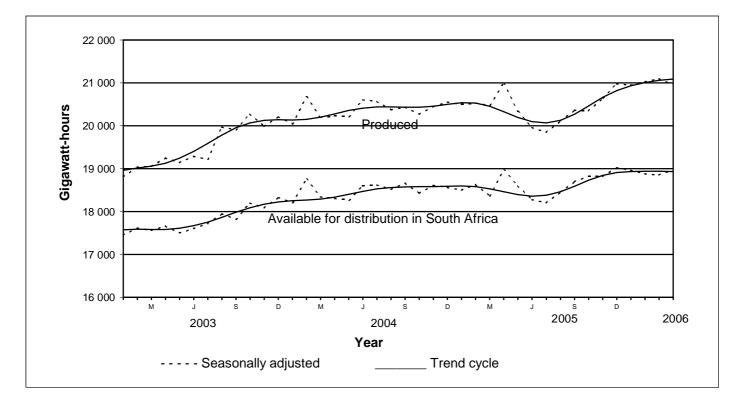
	Seasonally	Seasonally	Percentage	Quantity
	adjusted	adjusted	change	difference
	quantity	quantity	between	between
	November	February to	November 2005	November 2005
	2005 to	April	to	to
	January	2006	January 2006	January 2006
	2006		and	and
			February to	February to
			April 2006	April 2006
	Gigawatt-hours	Gigawatt-hours		Gigawatt-hour:
Electricity produced	+62 563	+63 073	+0,8	+510
Electricity available for distribution in South Africa	+56 804	+56 698	-0,2	-106

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

					Percentage	Quantity
	Actual	Í	Actual	ĺ	change	difference
	quantity	· i	quantity	ĺ	between	between
	February	to	February	to	February to	February to
	April	i	April	ĺ	April 2005	April 2005
	2005	i	2006	ĺ	and	and
		Í		ĺ	February to	February to
		Í		ĺ	April	April
		Í		ĺ	2006	2006
ĺ	Gigawatt-h	ours	Gigawatt-1	nours		Gigawatt-hours
Electricity produced	59 2	01	60 2	 248	+1,8	+1 047
Purchased outside South Africa (import)	18	45	1 8	314	-1,7	-31
Consumed in power stations and	İ					i
auxiliary systems	4 3	97	4 3	367	-0,7	-30
Sold outside South Africa (export)	28	60	3 3	196	+11,7	+336
Electricity available for distribution in South Africa	53 7	89	54 4	199	+1,3	+710
· ·						

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa between January 2003 and April 2006. There was a gradual upward movement in the trend cycles from the beginning until the end of 2003. From April 2004, the increase in electricity produced was less marked and has shown a declining trend between February and July 2005. The production of electricity has steadily increased since August 2005. The trend of electricity available for distribution in South Africa has shown a similar pattern. Although an increasing trend in electricity available for distribution is evident since August 2005, the trend has leveled out since January 2006.





P J Lehohla Statistician-General

# Contents

		Page
Notes		5
Tables		
Table 1	Total volume of electricity available for distribution in South Africa: 2001 to 2006	6
Table 2	Seasonally adjusted total volume of electricity available for distribution in South Africa: 2001 to 2006	6
Table 3	Indices of the physical volume of electricity production: 2001 to 2006	7
Table 4	Seasonally adjusted indices of the physical volume of electricity production: 2001 to 2006	7
Table 5	Total volume of electricity imported: 2001 to 2006	8
Table 6	Total volume of electricity exported: 2001 to 2006	8
Table 7	Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa	9
Table 8	Electricity distributed by Eskom by province for 2005 and 2006	10
Explanato	ory notes	11
Glossary		13
General in	nformation	14

Notes		
Forthcoming issues	Issue	Expected release date
	May 2006	6 July 2006
Purpose of the survey	used to compile estimates of the	ectricity generated and available for distribution survey are e Gross Domestic Product (GDP) and its components, which of the economy and formulation of economic policy.
Response rate	The response rate for the surve April 2006 was 100%.	ey on electricity generated and available for distribution for

# Table 1 - Total volume of electricity available for distribution in South Africa: 2001 to 2006

Month	2	001	2	2002	:	2003	4	2004	:	2005		200	б
January	16	064	16	191	17	095	 17	850	18	149	1	8 6	 03
February	14	871	15	215	16	168	17	277	17	169	1	7 3	96
March	16	320	16	552	17	655	18	476	18	487	1	8 9	82
April	15	515	16	362	16	905	17	524	18	133	1/ 1	8 1	21
May	16	929	17	852	18	159	18	909	19	224			
June	16	788	18	017	18	330	19	337	18	983			
July	18	021	18	956	19	183	20	156	19	657			
August	17	300	18	064	18	714	19	265	19	191			
September	16	277	17	125	17	526	18	362	18	384			
October	16	794	17	741	18	480	18	714	19	127			
November	15	960	17	233	17	790	18	314	18	523			
December	15	224	16	712	17	456	17	754	18	230			
 Year	196	063	206	020	213	461	221	938	223	257			

1/ Preliminary

# Table 2 - Seasonally adjusted total volume of electricity available for distribution in South Africa: 2001 to 2006

Month   	2001	2002   	2003	2004	2005	2006	<pre>% change between current and previous montl</pre>
January	16 395	16 522	17 447	18 206	18 502	18 960	-0,3
February	16 203	16 575	17 622	18 757	18 634	18 877	-0,4
March	16 226	16 450	17 560	18 340	18 365	18 854	-0,1
April	16 178	17 077	17 683	18 307	18 968	18 967	+0,б
May	16 269	17 191	17 501	18 267	18 601		
June	16 156	17 320	17 605	18 596	18 280		
July	16 647	17 502	17 713	18 620	18 204		
August	16 502	17 290	17 949	18 518	18 453		
September	16 463	17 346	17 813	18 666	18 695		
October	16 532	17 454	18 206	18 424	18 826		
November	16 233	17 512	18 084	18 615	18 821		
December	16 137	17 628	18 332	18 560	19 023		

Gigawatt-hours

# Table 3 - Indices of the physical volume of electricity production: 2001 to 2006

		Base :	2005=100			
Month	2001	2002	2003	2004	2005	2006
January	84,8	84,7	89,6	95,5	97,6	99,8
February	77,5	79,0	84,7	92,2	91,7	94,0
March	84,7	85,7	92,9	98,7	100,2	103,3
April	80,5	85,1	90,1	94,7	98,1	1/ 97,9
May	88,6	94,1	97,2	102,4	102,9	
June	87,0	94,8	98,5	105,0	101,6	
July	95,6	99,4	102,5	109,5	105,5	
August	92,9	94,5	102,4	104,3	103,0	
September	86,4	90,3	97,0	99,5	99,1	
October	88,4	94,3	102,2	102,1	102,5	
November	83,8	91,5	96,4	98,5	99,4	
December	79,2	87,4	94,0	96,0	98,2	
Year	85,8	90,1	95,6	99,9	100,0	

1/ Preliminary

# Table 4 - Seasonally adjusted indices of the physical volume of electricity production: 2001 to 2006

Month   	2001	2002	2003	2004   	2005     	2006	<pre>% change between current and previous month</pre>
January	86,8	86,8	92,1	98,2	100,5	102,8	+0,1
February	85,0	86,7	93,0	101,0	100,3	102,8	-0,0
March	84,8	85,9	93,2	98,8	100,2	103,4	+0,6
April	84,6	89,3	94,5	99,2	102,7	102,7	-0,7
May	85,2	90,6	93,7	99,0	99,6		
June	83,4	90,9	94,5	100,9	97,7		
July	88,1	91,7	94,6	101,3	97,7		
August	88,4	90,0	97,8	99,7	98,5		
September	86,8	90,7	97,5	100,0	99,7		
October	85,9	91,6	99,3	99,3	99,7		
November	85,2	93,0	98,0	100,1	101,1		
December	84,5	92,7	99,0	100,7	102,7		

Base : 2005=100

#### Table 5 - Total volume of electricity imported: 2001 to 2006

		Gigawa	tt-hours			
Month	2001	2002	2003	2004	2005	2006
January	569	670	705	828	729	872
February	488	643	637	811	714	646
March	665	783	706	863	533	581
April	774	733	547	641	598	1/ 587
May	629	658	569	547	849	
June	797	704	518	560	813	İ
July	479	702	792	607	856	İ
August	282	721	424	618	883	İ
September	507	637	266	590	686	İ
October	713	454	272	536	836	
November	636	477	583	746	865	
December	708	691	720	679	837	
   Year	7 247	7 873	6 739	8 026	9 199	

1/ Preliminary.

#### Table 6 - Total volume of electricity exported: 2001 to 2006

	Gigawatt-hours								
Month	2001	2002	2003	2004	2005	2006			
January	616	558	578	1 037	1 030	1 056			
February	470	478	508	977	901	1 050			
March	498	529	607	1 027	968	1 129			
April	463	525	619	951	991	1/ 1 017			
May	508	578	805	944	1 083				
June	496	601	798	1 057	1 096				
July	543	614	944	1 140	1 102				
August	569	605	1 030	1 049	1 144				
September	581	628	1 051	1 048	1 134				
October	630	626	1 116	1 112	1 161				
November	598	600	1 025	1 082	1 119				
December	547	608	1 055	1 029	1 155				
Year	 6 519	6 950	10 136	12 453	12 884				

1/ Preliminary.

	Gigawatt-ho	ours			
Description	April 2005	March 2006	April 2006 1/	<pre>% change between April 2005 and April 2006</pre>	Difference  between  April  2005  and  April  2006
Total - All producers					
Electricity produced	20 030	21 077	19 991	-0,2	-39
Purchased outside South Africa (import) Consumed in power stations and	598	581	587	-1,8	-11
auxiliary systems	1 504	1 548	1 439	-4,3	-65
Sold outside South Africa (export)	991	1 129	1 017	+2,6	+26
Electricity available for distribution in South Africa	18 133	18 982	18 121	-0,1	-12
'  ESKOM					
Electricity produced	19 080	20 304	19 323	+1,3	+243
Purchased outside South Africa (import)	598	581	587	-1,8	
Consumed in power stations and auxiliary systems	1 411	1 469	1 370	-2,9	-41
Sold outside South Africa (export)	991	1 129	1 017		
Electricity available for distribution in South Africa	17 276	18 288	17 523	+2,0+1,4	

1/ Preliminary.

# Table 7b - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (concluded)

	Gigawa	tt-ho	ours			
Description	Januar to April 2005	Ŷ	     January   to   April   2006 		<pre>% change between January to April 2005 and January to April 2006</pre>	Difference between January to April 2005 and January to April 2006
Total - All producers						
Electricity produced		129		611		+1 482
Purchased outside South Africa (import) Consumed in power stations and	2	574	2	686	+4,4	+112
auxiliary systems	5	875	5	942	+1,1	+67
Sold outside South Africa (export)	j 3	890	4	252	+9,3	+362
Electricity available for distribution in South Africa	71	938	73	102	+1,6	+1 164
'  ESKOM						1
Electricity produced	75	452	77	588	+2,8	+2 136
Purchased outside South Africa (import)	2	574	2	686	+4,4	+112
Consumed in power stations	İ					
and auxiliary systems	5	503	5	632	+2,3	+129
Sold outside South Africa (export)	3	890	4	252	+9,3	+362
Electricity available for distribution in South Africa	68	633	70	391	+2,6	+1 758

		Gigawatt-	hours		
Month	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal
2005	21 445	7 713	4 649	8 980	43 049
2005					
January	1 795	616	424	765	3 599
February	1 516	585	380	727	3 406
March	1 650	633	437	747	3 642
April	1 583	627	335	742	3 534
May	1 871	667	358	779	3 558
June	1 860	672	359	761	3 536
July	1 895	690	380	793	3 713
August	1 991	659	375	785	3 666
September	1 837	672	385	735	3 531
October	1 831	666	424	746	3 712
November	1 790	632	390	700	3 589
December	1 826	594	402	700	3 563
2006	1				
January	1 852	626	388	712	3 611
February	1 703	595	339	721	3 410
March	1 879	639	394	740	3 747
April 2/	1 809	591	357	730	3 572
Year to date	7 243	2 451	1 478	2 903	14 340

### Table 8a - Electricity distributed by Eskom by province for 2005 and 2006 1/

### Table 8b - Electricity distributed by Eskom by province for 2005 and 2006 (concluded) 1/

Month	North We	st	Gaute	eng	Mpumala	anga	Limpo	opo	Total	South	Africa
2005	24 8	65	55	107	 29	469	 10	281		205	558
2005											
January	2 1	72	4	402	2	206		858		16	837
February	2 0	56	4	052	2	285		815		15	823
March	2 1	71	4	494	2	378		854		17	005
April	2 0	89	4	489	2	676		676		16	751
May	2 1	73	4	730	2	581		909		17	626
June	2 0	68	4	760	2	449		899		17	364
July	2 0	42	5	057	2	498		925		17	993
August	19	37	4	866	2	319		932		17	530
September	19	96	4	493	2	373		860		16	882
October	2 0	50	4	776	2	703		861		17	769
November	2 0	70	4	672	2	467		821		17	131
December	2 0	41	4	316	2	534		871		16	847
2006											
January	2 0	73	4	442	2	635		904		17	242
February	19	34	4	129	2	343	1	023		16	197
March	2 0	19	4	690	2	684		890		17	682
April 2/	1 9	04	4	514	2	550		874		16	901
· Year to date	 7 9	 30	 17	775	 10	212	 3 6	 591		68	022

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

10

# 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.
	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.
Scope of the survey	4	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	5	The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> ( <i>SIC</i> ), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> 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.
Statistical unit	6	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	7	All statistical units are stratified by type of economic activity according to the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> 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.
	8	The survey is conducted by mail each month collecting information from a sample of 22 electricity undertakings or establishments.
Monthly production indices	9	The calculation of the monthly production indices is based on the number of electricity units produced.
Benchmarking	10	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 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.

	11	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 July 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 July 1995 as reference point).				
Seasonal adjustment	12	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 recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behavior.				
Trend cycle	13	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	14	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	15	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	16	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	17	Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.				
Symbols and abbreviations	18	GDPGross Domestic ProductISICInternational Standard Industrial ClassificationSICStandard Industrial Classification of all Economic ActivitiesStats SAStatistics South Africa*Revised figures				

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.
Establishment (branch)	An establishment (branch) is defined as the smallest economic unit, which operates as a separate entity for which comprehensive financial records are kept.
Index of physical volume of electricity production	The index of physical volume of electricity production or a production index is a statistical measure of the change in the volume of production. The production index of electricity is the ratio between 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 <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02.
Unit of electricity	One unit of electricity is equal to 1 kilowatt-hour (kWh). One gigawatt-hour (gWh) of electricity is equal to one million kilowatt-hours.

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14

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