

Electricity generated and available for distribution February 2005

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Table A – Selected key figures regarding electricity generated and available for distribution for February 2005

Estimates

	February 2005	% change between February 2004 and February 2005	% change between December 2003 to February 2004 and December 2004 to February 2005	% change between January to February 2004 and January to February 2005
Electricity available for distribution (Gigawatt-hours)	17 169	-0,6	+0,9	+0,5
Electricity imported (Gigawatt-hours)	714	-12,0	-10,0	-12,0
Electricity exported (Gigawatt-hours)	901	-7,8	-3,6	-4,1
Index of the physical volume of electricity production (2000=100)	106,6	-0,6	+1,3	+0,9

Seasonally adjusted estimates

	February 2005	% change between January and February 2005	% change between September to November 2004 and December 2004 to February 2005
Electricity available for distribution (Gigawatt-hours)	18 716	+0,3	+0,5
Index of the physical volume of electricity production (2000=100)	117,0	-0,4	+1,3

Key findings regarding electricity generated and available for distribution for February 2005

Consumption of electricity increases

The estimated consumption of electricity (available for distribution) for the three months ended February 2005, after seasonal adjustment, increased by 0,5% (+289 Gigawatt-hours) compared with the previous three months. The consumption of electricity for the three months ended February 2005, increased by 0,9% compared with the corresponding period ending February 2004 (see table C). However, the electricity available for distribution for February 2005 decreased by 0,6% (-109 Gigawatt-hours) compared with February 2004 (see table 7).

Production of electricity increases

As indicated in table B, the estimated production of electricity for the three months ended February 2005, after seasonal adjustment, increased by 1,6% (+973 Gigawatt-hours) compared with the previous three months. However, production of electricity for February 2005 decreased by 0,6% (-108 Gigawatt-hours) compared with February 2004, due to the longer month in 2004 and less import of electricity.

Import and export of electricity decrease

As shown in table A, both the import and export of electricity decreased for February 2005 compared with February 2004 (-12,0% and -7,8% respectively). Furthermore, the import and export of electricity were lower during the three months up to February 2005 than during the corresponding three months up to February 2004 (see table C).

Table B - Percentage difference in the seasonally adjusted quantity of electricity generated and available for distribution

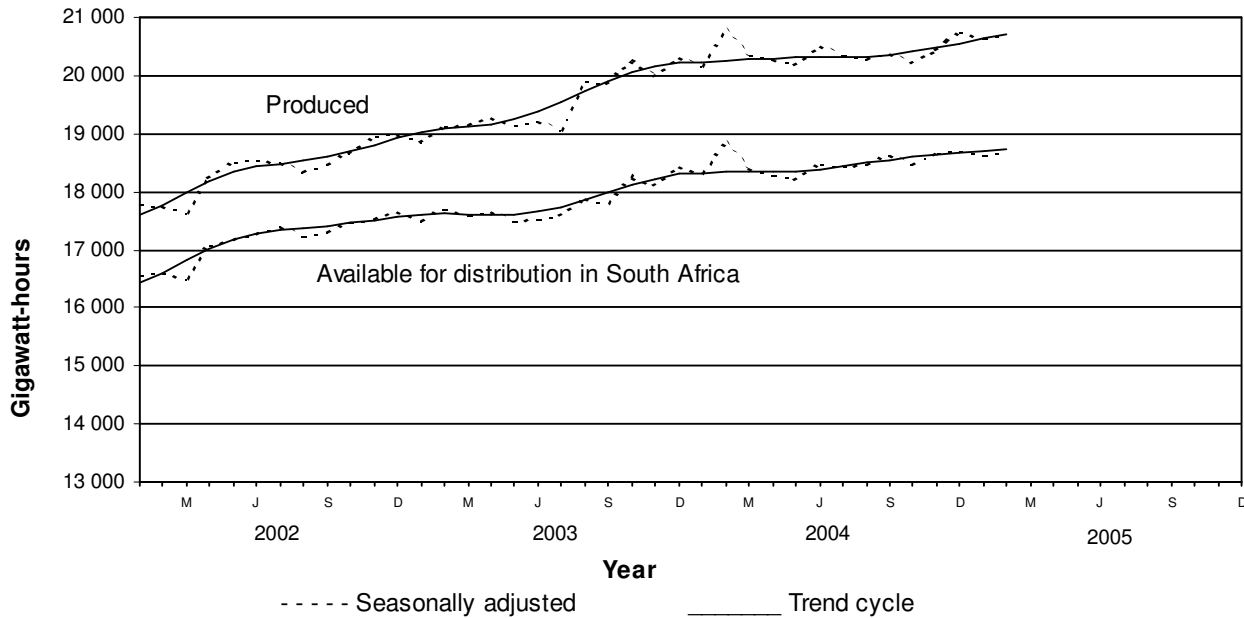
	Seasonally adjusted quantity September to November 2004	Seasonally adjusted quantity December 2004 to February 2005	Percentage change between September to November 2004 and December 2004 to February 2005	Difference between September to November 2004 and December 2004 to February 2005
	Gigawatt-hours	Gigawatt-hours		Gigawatt-hours
Electricity produced	61 061	62 034	+1,6	+973
Electricity available for distribution in South Africa	55 785	56 074	+0,5	+289

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

	Estimated quantity December 2003 to February 2004	Estimated quantity December 2004 to February 2005	Percentage change between December 2003 to February 2004 and December 2004 to February 2005	Difference between December 2003 to February 2004 and December 2004 to February 2005
	Gigawatt-hours	Gigawatt-hours		Gigawatt-hours
Electricity produced	57 503	58 237	+1,3	+734
Purchased outside South Africa (import)	2 359	2 122	-10,0	-237
Consumed in power stations and auxiliary systems	4 210	4 327	+2,8	+117
Sold outside South Africa (export)	3 069	2 960	-3,6	-109
Electricity available for distribution in South Africa	52 584	53 072	+0,9	+488

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa between January 2002 and February 2005. There was a gradual upward movement in the trend cycles until the end of 2003. From February 2004, the increase in electricity produced was less marked, but it has picked up again slightly from June 2004 to date. The trend of electricity available for distribution in South Africa shows a similar pattern, but with slightly less increase over the last six months.

Figure 1 – Electricity produced and available for distribution in South Africa from 2002 to 2005



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Contents

	Page
Notes	5
Tables	
Table 1 Total volume of electricity available for distribution in South Africa: 2000 to 2005	6
Table 2 Seasonally adjusted total volume of electricity available for distribution in South Africa: 2000 to 2005	6
Table 3 Indices of the physical volume of electricity production: 2000 to 2005	7
Table 4 Seasonally adjusted indices of the physical volume of electricity production: 2000 to 2005	7
Table 5 Total volume of electricity imported: 2000 to 2005	8
Table 6 Total volume of electricity exported: 2000 to 2005	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 2004 and 2005	10
Explanatory notes	11
Glossary	13
General information	14

Notes

Forthcoming issues	Issue	Expected release date
	March 2005	5 May 2005
Purpose of the 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.	
Response rate	The response rate for the survey on electricity generated and available for distribution for February 2005 was 100%.	
Name change of statistical release	As from the July 2004 publication the name of the monthly Statistical Release P4141: <i>Generation and consumption of electricity</i> , changed to <i>Electricity generated and available for distribution</i> .	

Table 1 - Total volume of electricity available for distribution in South Africa: 2000 to 2005

Gigawatt-hours						
Month	2000	2001	2002	2003	2004	2005
January	15 512	16 064	16 191	17 095	17 850	18 149
February	15 224	14 871	15 215	16 168	17 278	1/ 17 169
March	16 225	16 320	16 551	17 655	18 477	
April	15 399	15 515	16 362	16 905	17 524	
May	17 064	16 929	17 852	18 159	18 909	
June	16 818	16 788	18 016	18 331	19 336	
July	17 759	18 021	18 956	19 183	20 156	
August	17 214	17 300	18 064	18 713	19 265	
September	16 180	16 277	17 125	17 526	18 362	
October	16 709	16 794	17 741	18 479	18 714	
November	16 161	15 960	17 234	17 790	18 314	
December	15 395	15 224	16 713	17 456	17 754	
Year	195 660	196 063	206 020	213 460	221 939	

1/ Preliminary.

Table 2 - Seasonally adjusted total volume of electricity available for distribution in South Africa: 2000 to 2005

Gigawatt-hours							Percentage change between current and previous month
Month	2000	2001	2002	2003	2004	2005	
January	15 841	16 411	16 564	17 503	18 314	18 651	-0,3
February	16 623	16 209	16 608	17 653	18 822	18 716	+0,3
March	16 231	16 261	16 484	17 602	18 398		
April	16 168	16 183	17 067	17 664	18 278		
May	16 384	16 264	17 182	18 159	18 226		
June	16 149	16 129	17 269	17 540	18 485		
July	16 392	16 598	17 417	17 601	18 450		
August	16 373	16 482	17 259	17 907	18 461		
September	16 314	16 455	17 327	17 789	18 636		
October	16 436	16 541	17 469	18 239	18 473		
November	16 478	16 264	17 544	18 132	18 676		
December	16 398	16 154	17 667	18 425	18 707		

Table 3 - Indices of the physical volume of electricity production: 2000 to 2005

Base : 2000=100

Month	2000	2001	2002	2003	2004	2005
January	92,5	98,6	98,5	104,2	111,0	113,5
February	91,2	90,1	91,8	98,5	107,2	1/ 106,6
March	100,9	98,5	99,7	108,0	114,7	
April	95,9	93,6	99,0	104,7	110,1	
May	106,3	103,0	109,4	113,0	119,1	
June	104,9	101,1	110,2	114,5	122,0	
July	107,8	111,1	115,5	119,2	127,3	
August	105,5	108,0	109,9	119,1	121,3	
September	99,1	100,5	104,9	112,8	115,7	
October	103,1	102,7	109,6	118,9	118,7	
November	99,1	97,4	106,3	112,0	114,5	
December	93,8	92,1	101,7	109,3	111,6	
Year	100,0	99,7	104,7	111,2	116,1	

1/ Preliminary.

Table 4 - Seasonally adjusted indices of the physical volume of electricity production: 2000 to 2005

Base : 2000=100

Month	2000	2001	2002	2003	2004	2005	Percentage change between current and previous month
January	94,6	101,1	101,2	107,3	114,6	117,5	-0,5
February	99,8	98,8	100,9	108,2	117,7	117,0	-0,4
March	101,1	98,9	100,2	108,9	115,7		
April	101,1	98,5	104,0	110,0	115,6		
May	102,2	99,1	105,4	109,1	115,1		
June	100,7	96,9	105,6	109,6	116,7		
July	98,8	101,7	105,6	108,9	116,2		
August	100,0	102,5	104,4	113,3	115,4		
September	99,5	101,0	105,4	113,3	116,2		
October	100,4	99,9	106,5	115,5	115,3		
November	101,0	99,2	108,2	114,0	116,6		
December	100,6	98,5	108,3	115,9	118,1		

Table 5 - Total volume of electricity imported: 2000 to 2005

Gigawatt-hours						
Month	2000	2001	2002	2003	2004	2005
January	683	569	670	705	828	729
February	529	488	643	637	811	1/ 714
March	6	665	783	706	863	
April	24	774	733	547	641	
May	20	629	658	569	547	
June	2	797	704	518	560	
July	599	479	702	792	607	
August	476	282	721	424	618	
September	495	507	637	266	590	
October	506	713	454	272	536	
November	601	636	477	583	746	
December	778	708	691	720	679	
Year	4 719	7 247	7 873	6 739	8 026	

1/ Preliminary

Table 6 - Total volume of electricity exported: 2000 to 2005

Gigawatt-hours						
Month	2000	2001	2002	2003	2004	2005
January	197	616	558	578	1 037	1 030
February	169	470	478	508	977	1/ 901
March	196	498	529	607	1 027	
April	155	463	525	619	951	
May	213	508	578	805	944	
June	193	496	601	798	1 057	
July	363	543	614	944	1 140	
August	389	569	605	1 030	1 049	
September	458	581	628	1 051	1 048	
October	540	630	626	1 116	1 112	
November	525	598	600	1 025	1 082	
December	609	547	608	1 055	1 029	
Year	4 007	6 519	6 950	10 136	12 453	

1/ Preliminary.

Table 7 - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa

Gigawatt-hours					
Description	February 2004	January 2005	February 2005 1/	% change between February 2004 and February 2005	Difference between February 2004 and February 2005

Total - All producers					
Electricity produced	18 827	19 928	18 719	-0,6	-108
Purchased outside South Africa (import)	811	729	714	-12,0	-97
Consumed in power stations and auxiliary systems	1 384	1 478	1 363	-1,5	-21
Sold outside South Africa (export)	977	1 030	901	-7,8	-76
Electricity available for distribution in South Africa	17 278	18 149	17 169	-0,6	-109

ESKOM					
Electricity produced	18 007	19 085	17 842	-0,9	-165
Purchased outside South Africa (import)	811	729	714	-12,0	-97
Consumed in power stations and auxiliary systems	1 300	1 386	1 272	-2,2	-28
Sold outside South Africa (export)	977	1 030	901	-7,8	-76
Electricity available for distribution in South Africa	16 542	17 398	16 383	-1,0	-159

1/ Preliminary.

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

Gigawatt-hours				
Description	January to February 2004	January to February 2005	% change January to February 2004 and January to February 2005	Difference January to February 2004 and January to February 2005

Total - All producers				
Electricity produced	38 322	38 647	+0,8	+325
Purchased outside South Africa (import)	1 639	1 443	-12,0	-196
Consumed in power stations and auxiliary systems	2 821	2 841	+0,7	+20
Sold outside South Africa (export)	2 014	1 931	-4,1	-83
Electricity available for distribution in South Africa	35 128	35 318	+0,5	+190

ESKOM				
Electricity produced	36 647	36 927	+0,8	+280
Purchased outside South Africa (import)	1 639	1 443	-12,0	-196
Consumed in power stations and auxiliary systems	2 657	2 658	+0,0	+1
Sold outside South Africa (export)	2 014	1 931	-4,1	-83
Electricity available for distribution in South Africa	33 617	33 781	+0,5	+164

Table 8 - Electricity distributed by Eskom by province for 2004 and 2005 1/

Gigawatt-hours					
Month	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal
2004	21 492	7 510	4 502	9 624	42 264
2004					
January	1 782	516	384	839	3 416
February	1 741	599	369	772	3 373
March	1 826	643	385	791	3 496
April	1 693	567	317	740	3 293
May	1 792	656	354	822	3 570
June	1 734	648	353	837	3 971
July	1 905	693	383	892	3 642
August	1 904	676	371	841	3 559
September	1 771	647	378	772	3 455
October	1 786	646	400	801	3 583
November	1 783	646	411	769	3 450
December	1 774	573	397	749	3 456
2005					
January	1 795	616	424	765	3 599
February 2/	1 516	585	380	727	3 406

Table 8 - Electricity distributed by Eskom by province for 2004 and 2005 (concluded) 1/

Gigawatt-hours					
Month	North West	Gauteng	Mpumalanga	Limpopo	Total South Africa
2004	28 186	54 970	25 925	9 791	204 267
2004					
January	2 389	4 335	2 087	788	16 537
February	2 230	4 144	2 097	727	16 052
March	2 443	4 454	2 161	798	16 997
April	2 218	4 296	2 065	761	15 950
May	2 418	4 749	2 308	839	17 508
June	2 303	4 940	2 104	816	17 706
July	2 504	5 488	2 206	859	18 572
August	2 430	4 898	2 178	878	17 735
September	2 398	4 575	2 029	833	16 857
October	2 411	4 576	2 213	817	17 233
November	2 326	4 375	2 222	828	16 811
December	2 117	4 140	2 255	847	16 309
2005					
January	2 172	4 402	2 206	858	16 837
February 2/	2 057	4 052	2 285	815	15 823

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 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 2000=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 (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 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. |

- 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 December of the relevant census year (the 1995 census year covered the period 1 February 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 -
- *Bulletin of Statistics.*
 - *SA Statistics.*
- 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**
- | | |
|----------|---|
| GDP | Gross Domestic Product |
| ISIC | International Standard Industrial Classification |
| SIC | Standard Industrial Classification of all Economic Activities |
| Stats SA | Statistics 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 2000. 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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