Key figures as at the end of September 2000	
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Actual estimates	September 2000	% change between September 1999 and September 2000	% change between July 1999 to September 1999 and July 2000 to September 2000	% change between January 1999 to September 1999 and January 2000 to September 2000
Electricity consumed (Gigawatt-hours)	16 180	+1,5%	+2,9%	+3,2%
Index of the physical volume of electricity production	111,8	+2,2%	+3,1%	+3,8%
production	111,0	12,270	13,170	15,670
Seasonally adjusted estimates	September 2000	% change between August 2000 and September 2000	% change between April 2000 to June 2000 and July 2000 to September 2000	
Electricity consumed (Gigawatt-hours)	16 236	-0,3%	+0,3%	
Index of the physical volume of electricity production	112,0	-0,6%	-1,8%	

Key findings as at the end of September 2000

Consumption of electricity increases

The consumption of electricity for the third quarter of 2000 increased by 0,3% (+149 Gigawatt-hours) after seasonal adjustment, compared with the second quarter of 2000. The consumption of electricity for September 2000 increased by 1,5% (+243 Gigawatt-hours) compared with September 1999. Furthermore, the consumption of electricity in South Africa for the first nine months of 2000 increased by 3,2% (+4 612 Gigawatt-hours) compared with the first nine months of 1999.

Production of electricity decreases

The production of electricity in South Africa for the third quarter of 2000, after seasonal adjustment, decreased by 1,8% (-944 Gigawatt-hours) compared with the second quarter of 2000. However, the production of electricity for September 2000 increased by 2,2% (+374 Gigawatt-hours) compared with September 1999. Furthermore, the production of electricity for the first nine months of 2000 increased by 3,8% (+5 884 Gigawatt-hours) compared with the first nine months of 1999.

The seasonally adjusted import of electricity for the third quarter of 2000 increased from 44 Gigawatt-hours to 1 427 Gigawatt-hours compared with the second quarter of 2000. This increase was mainly due to the fact that power lines from neighbouring countries were out of order for the period March to June 2000 after severe flooding. As from July 2000 these powerlines are in operation again.

The seasonally adjusted export of electricity to neighbouring countries for the third quarter of 2000 increased by 67% (+412 Gigawatt-hours) compared with the second quarter of 2000.

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Notes

Forthcoming issues	Issue	Expected release date
	October 2000 November 2000 December 2000	7 December 2000 4 January 2001 1 February 2001
Purpose of the survey	a sample of electricity the generation or trans The information recei indices in order to con	Consumption of Electricity Survey is a countrywide survey covering undertakings and establishments conducting activities concerned with smission and distribution of electricity in the South African economy. ved is used to estimate key economic statistics and calculate production npile estimates of the Gross Domestic Product (GDP) and its components, nulate and monitor government policy.

Table 1 - Electricity consumed in South Africa: 1995 to 2000 Gigawatt-hours) 1/

Month	1995	19	96	199	€7	1	998	:	1999	20	00
				Actua	L figu	ires					
 J	13 782	14	155	15	009	1	 5 403		 15 153	15	512
F	12 858	13	710	14	088	1	4 459		14 360	15	224
м	14 145	14	361	15	155	1	5 714	:	15 791	16	225
A	13 350	14	006	15	247	1	4 923	:	15 063	15	399
м	14 687	15	315	16	423	1	5 261	:	16 327	17	064
J	14 998	15	325	16	474	1	5 280	:	16 393	16	818
J	15 440	16	862	17	187	1	5 867	:	17 051	17	759
A	14 994	16	151	16	303	1	5 417	:	16 708	17	214
s	13 939	14	698	15	503	1	5 536	:	15 937	16	180
0	14 306	15	356	16	005	1	5 957	:	16 322		
N	14 070	14	792	15	235	1	5 136	:	15 831		
D	13 534	14	207	14	878	1	4 563	:	15 184		
 YEAR	170 103	178	938	187	507	18	7 516	1:	90 120		
			Sea	sonally a	adjust	ted figur	es				
J	14 091	14	462	15	291	1	 5 735		15 490	15	896
F	14 147	15	045	15	410	1	5 762	:	15 619	16	538
м	14 134	14	310	15	086	1	5 669	:	15 750	16	195
A	14 113	14	779	16	059	1	5 697	:	15 831	16	240
м	14 283	14	805	15	822	1	5 635	:	15 708	16	398
J	14 174	14	524	15	685	1	5 559	:	15 731	16	132
J	14 089	15	409	15	751	1	5 496	:	15 726	16	402
A	14 067	15	5 199	15	371	1	5 518	:	15 806	16	281
s	14 118	14	891	15	697	1	5 627	:	16 010	16	236
0	14 153		187		781		5 686		16 040		
N	14 427		189		641		5 532		16 231		
DI	14 393	15	161	15	928	1	5 608		16 239		

1/ As indicated by electricity available for distribution

Table 2 - Indices of the physical volume of electricity production: 1995 to 2000 Base : 1995=100)

Month	1995	1996	1997	1998	1999	2000
Actual indices						
J	97,5	100,6	108,3	109,6	106,9	104,4
F	90,7	98,5	101,5	102,8	100,5	102,9
м	99,8	103,6	109,5	110,6	109,4	113,9
A	93,9	100,5	109,6	105,5	101,7	108,2
м	102,6	109,9	117,8	115,4	110,6	119,9
J	105,2	110,1	118,3	115,4	111,6	118,4
J	108,7	121,1	124,1	119,9	117,4	121,6
A	105,6	115,8	118,0	111,9	114,9	119,0
s	98,5	105,7	112,9	109,1	109,4	111,8
0	101,4	110,7	115,8	112,6	111,9	
N	99,9	107,3	110,0	106,2	108,4	
D	96,2	102,7	106,7	101,3	102,4	
YEAR	100,0	107,2	112,7	110,0	108,8	
		Sea	sonally adjust	ed indices		
J	99,8	102,9	110,7	112,0	109,3	106,8
F	99,6	107,8	110,8	112,0	109,3	111,9
м	100,0	103,7	109,6	110,5	109,2	113,5
A	99,2	106,2	115,7	111,3	107,2	114,1
м	99,7	106,4	113,6	111,0	106,2	115,1
J	99,5	104,6	112,9	110,5	107,0	113,7
J	99,3	110,7	113,7	110,0	108,0	111,9
A	99,1	109,0	111,4	105,7	108,7	112,7
s	99,5	106,6	113,6	109,5	109,6	112,0
0	100,2	109,1	113,8	110,4	109,6	
N	102,1	109,7	112,5	108,8	111,1	
D	102,1	109,3	113,9	108,5	109,7	

Table 3 - Electricity produced and consumed in power stations, purchased and sold outside South Africa and consumed in South Africa

Description August | September | January - September Year September 1999 _____ _____ 2000 1999 2000 1999 _____ Total - all producers _____ Electricity produced Actual figures 203 012 18 517 17 011 158 698 152 814 17 395 Seasonally adjusted figures 17 438 17 534 17 064 --Purchased outside South Africa (import) 6 673 495 476 679 2 834 4 550 Consumed in power stations and auxiliary systems 15 299 1 253 1 389 1 273 11 801 11 512 Sold outside South Africa (export) 4 266 458 389 480 2 333 3 069 Electricity consumed in South Africa 1/ 190 120 Actual figures 16 180 17 214 15 937 147 395 142 783 Seasonally adjusted figures 16 010 16 236 16 281 _____ Felom -----_____ Electricity produced Actual figures 192 391 16 569 17 600 16 122 150 971 144 823 Seasonally adjusted figures 16 619 16 689 16 178 --Purchased outside South Africa (import) 6 673 495 2 834 476 679 4 550 Consumed in power stations and auxiliary systems 14 144 1 158 1 292 1 173 10 961 10 650 Sold outside South Africa (export) 4 266 458 389 480 2 333 3 069 Electricity consumed in South Africa 1/ Actual figures 180 654 15 448 16 394 15 148 140 508 135 654 Seasonally adjusted figures 15 508 15 530 15 220 -_____

Gigawatt-hours

1/ As indicated by electricity available for distribution

* Revised

Additional information

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 produced and consumed in South Africa and the number of units purchased and sold outside South Africa 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. In accordance with international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100. Rebased indices were published in the October 1997 Statistical release P4141 - Generation and Consumption of Electricity on 4 December 1997.
	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 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.
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 (cf. paragraph 6).

Survey methodology and design	7	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.
	8	The survey is conducted by mail each month collecting information from a sample of 23 electricity undertakings or establishments.
Monthly production indices	9	The calculation of the monthly production indices is based on the number of electri- city 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 Generation and Consumption of Electricity sample survey is based on information received from a sample of electricity undertakings and establishments which is weighted according to the original sample design 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 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). The results, due to benchmarking, were published in the October 1997 statistical release P4141 - Generation and Consumption

of Electricity on 4 December 1997.

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 behaviour.
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 of 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 has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure:
	18	In respect of this statistical release, an official representative from the Office of the President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank will receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.
	19	Stats SA pre-release policy may be inspected at its Website, www.statssa.gov.za

Technical notes

Response rates The response rate for September 2000 is 100%.

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 1995. 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 unit of electricity is equal to 1 kilowatt-hour (kWh). One gigawatt-hours (gWh) of electricity is equal to one million kilowatt-hours.

For more 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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