

# Statistical release P4141

# Electricity generated and available for distribution (preliminary)

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# SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (MAY 2008)

### **Key findings**

#### Consumption of electricity decreases

The estimated consumption of electricity in May 2008 decreased by 2,5% (-520 Gigawatt-hours) compared with May 2007, while an increase of 2,9% was recorded for May 2007 compared with May 2006 (see tables A, 2 and 9a). Electricity consumed for the three months ending May 2008 decreased by 1,5% (-886 Gigawatt-hours) compared with the same three months a year ago (see tables A and C). In the first five months of 2008, consumption of electricity was affected by numerous factors that led to reduced levels of consumption, such as load shedding and a continuous drive from Eskom in encouraging users to save on electricity consumption. Electricity consumption after seasonal adjustment for the latest three months ending May 2008 decreased by 0,6% compared with the previous three months ended February 2008 (see table A).

#### Production of electricity decreases

The estimated production of electricity, after seasonal adjustment, showed a decrease of 2,1% for the three months ending May 2008 compared with the preceding three months (see table A). The estimated total production of electricity in May 2008 decreased by 2,1% (-487 Gigawatt-hours) compared with May 2007 (see tables A and 9a). The estimated production of electricity during the latest three months ending May 2008 decreased by 1,1% (-701 Gigawatt-hours) compared with the same period of 2007 (see tables A and C).

#### International trade in electricity slows down

International trade in electricity for 2008 to date showed annual decreases for electricity imported from outside South Africa (-20,7% or -1 027 Gigawatt-hours) and electricity exported to neighbouring countries (-2,2% or -128 Gigawatt-hours) (see table 9b). The decrease in imports of electricity in the first five months of 2008 resulted from reduced availability from the Cahorra Bassa scheme owing to the planned refurbishment of an Eskom converter station and the unavailability of the transmission network in Zambia owing to system instability in that country.

## **Key figures**

Table A – Selected key figures regarding electricity generated and available for distribution for May 2008

Estimates	May 2008 1/	% change between May 2007 and May 2008	% change between March to May 2007 and March to May 2008	% change between January to May 2007 and January to May 2008
Electricity available for distribution (Gigawatt-hours)	20 381	-2,5	-1,5	-0,8
Index of the physical volume of electricity production (2005=100)	109,6	-2,1	-1,1	0,1

<sup>1/</sup> Preliminary.

Seasonally adjusted estimates	May 2008	% change between April and May 2008	% change between December 2007 to February 2008 and March to May 2008	
Electricity available for distribution (Gigawatt-hours)	19 566	-2,6	-0,6	
Index of the physical volume of electricity production (2005=100)	105,4	-1,7	-2,1	

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

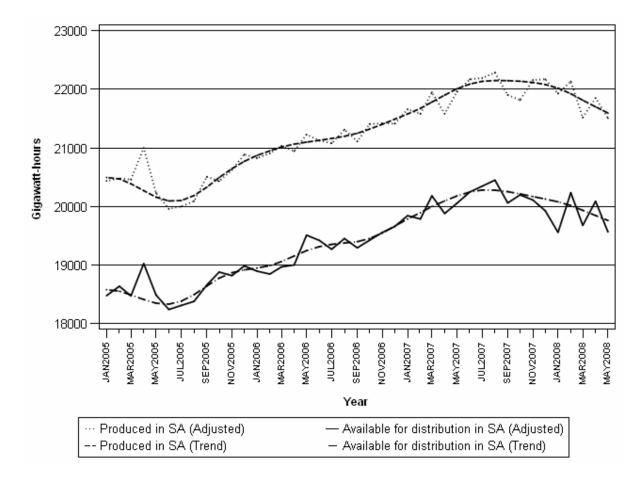
Gigawatt-hours	Seasonally adjusted quantity December 2007 to February 2008	Seasonally adjusted quantity March to May 2008	% change between December 2007 to February 2008 and March to May 2008	Quantity difference between December 2007 to February 2008 and March to May 2008
Electricity produced	66 230	64 872	-2,1	-1 358
Electricity available for distribution in South Africa	59 717	59 330	-0,6	-387

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

Gigawatt-hours	Actual quantity March to May 2007	Actual quantity March to May 2008	% change between March to May 2007 and March to May 2008	Quantity difference between March to May 2007 and March to May 2008
Electricity produced	65 430	64 729	-1,1	-701
Purchased outside South Africa (import)	2 928	2 408	-17,8	-520
Consumed in power stations and auxiliary systems	4 749	4 724	-0,5	-25
Sold outside South Africa (export)	3 566	3 253	-8,8	-313
Electricity available for distribution in South Africa	60 043	59 157	-1,5	-886

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa between January 2005 and May 2008.

Figure 1 – Electricity produced and available for distribution in South Africa from 2005 to 2008



P J Lehohla Statistician-General

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

Table 1 – Total volume of electricity available for distribution in South Africa: 2003 to 2008

	2003	2004	2005	2006	2007	2008
January	17 095	17 850	18 149	18 603	19 561	19 285
February	16 168	17 277	17 169	17 396	18 301	18 695
March	17 655	18 476	18 487	18 982	20 160	19 625
April	16 905	17 524	18 133	18 122	18 982	19 151
May	18 159	18 909	19 224	20 312	20 901	1/ 20 381
June	18 330	19 337	18 983	20 166	21 020	
July	19 183	20 156	19 657	20 632	21 780	
August	18 714	19 265	19 191	20 307	21 353	
September	17 526	18 362	18 384	18 987	19 732	
October	18 480	18 714	19 127	19 663	20 435	
November	17 790	18 314	18 523	19 244	19 785	
December	17 456	17 754	18 230	18 909	19 160	
Year	213 461	221 938	223 257	231 323	241 170	

<sup>1/</sup> Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2003 to 2008

	Percentage						
	2003	2004	2005	2006	2007	2008	
January	5,6	4,4	1,7	2,5	5,1	-1,4	
February	6,3	6,9	-0,6	1,3	5,2	2,2	
March	6,7	4,7	0,1	2,7	6,2	-2,7	
April	3,3	3,7	3,5	-0,1	4,7	0,9	
May	1,7	4,1	1,7	5,7	2,9	-2,5	
June	1,7	5,5	-1,8	6,2	4,2		
July	1,2	5,1	-2,5	5,0	5,6		
August	3,6	2,9	-0,4	5,8	5,2		
September	2,3	4,8	0,1	3,3	3,9		
October	4,2	1,3	2,2	2,8	3,9		
November	3,2	2,9	1,1	3,9	2,8		
December	4,5	1,7	2,7	3,7	1,3		
Year	3,6	4,0	0,6	3,6	4,3		

The percentage change is the change in the index of the physical volume of electricity available for distribution of the relevant year compared with the index of the physical volume of electricity available for distribution of the previous year expressed as a percentage.

 $\begin{tabular}{ll} Table 3-Seasonally adjusted total volume of electricity available for distribution in South Africa: 2003 to 2008 \end{tabular}$ 

	Gigawatt-hours								
	2003	2004	2005	2006	2007	2008	% change between current and previous month		
January	17 440	18 192	18 478	18 895	19 842	19 557	-1,9		
February	17 609	18 756	18 638	18 846	19 785	20 234	3,5		
March	17 593	18 406	18 473	18 967	20 181	19 676	-2,8		
April	17 686	18 347	19 025	19 001	19 879	20 088	2,1		
Мау	17 438	18 162	18 487	19 509	20 055	19 566	-2,6		
June	17 594	18 566	18 241	19 420	20 246				
July	17 824	18 742	18 310	19 269	20 345				
August	17 936	18 476	18 379	19 452	20 449				
September	17 762	18 614	18 657	19 293	20 059				
October	18 210	18 448	18 880	19 424	20 197				
November	18 085	18 617	18 819	19 556	20 109				
December	18 330	18 547	18 984	19 657	19 926				

Table 4 – Indices of the physical volume of electricity production: 2003 to 2008

		Base : 2005=100					
	2003	2004	2005	2006	2007	2008	
January	89,6	95,5	97,6	99,8	103,9	105,3	
February	84,7	92,2	91,7	94,0	97,2	99,7	
March	92,9	98,7	100,2	103,3	107,8	105,6	
April	90,1	94,7	98,1	98,0	100,9	102,0	
May	97,2	102,4	102,9	108,1	112,0	1/ 109,6	
June	98,5	105,0	101,6	107,3	112,5		
July	102,5	109,5	105,5	110,8	116,6		
August	102,4	104,3	103,0	109,1	114,1		
September	97,0	99,5	99,1	101,8	105,5		
October	102,2	102,1	102,5	107,2	109,1		
November	96,4	98,5	99,4	103,3	106,9		
December	94,0	96,0	98,2	100,9	104,6		
Year	95,6	99,9	100,0	103,6	107,6		

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2003 to 2008

	2003	2004	2005	2006	2007	2008
January	5,8	6,6	2,2	2,3	4,1	1,3
February	7,2	8,9	-0,5	2,5	3,4	2,6
March	8,4	6,2	1,5	3,1	4,4	-2,0
April	5,9	5,1	3,6	-0,1	3,0	1,1
May	3,3	5,3	0,5	5,1	3,6	-2,1
June	3,9	6,6	-3,2	5,6	4,8	
July	3,1	6,8	-3,7	5,0	5,2	
August	8,4	1,9	-1,2	5,9	4,6	
September	7,4	2,6	-0,4	2,7	3,6	
October	8,4	-0,1	0,4	4,6	1,8	
November	5,4	2,2	0,9	3,9	3,5	
December	7,6	2,1	2,3	2,7	3,7	
Year	6,2	4,4	0,1	3,7	3,8	

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: 2003 to 2008

		Base : 2005=100								
	2003	2004	2005	2006	2007	2008	% change between current and previous month			
January	92,0	98,1	100,2	102,3	106,3	107,7	-0,8			
February	93,0	101,1	100,3	102,5	105,8	108,4	0,6			
March	93,1	98,7	100,1	103,0	107,4	105,2	-3,0			
April	94,4	99,2	102,9	102,8	105,9	107,2	1,9			
May	93,6	98,7	99,2	104,1	107,7	105,4	-1,7			
June	94,3	100,6	97,4	103,0	108,0					
July	94,8	101,5	98,0	103,2	108,7					
August	97,8	99,7	98,5	104,3	109,2					
September	97,7	100,5	100,5	103,5	107,4					
October	99,5	99,6	100,3	105,2	107,2					
November	98,0	100,1	101,0	104,9	108,5					
December	99,0	100,5	102,3	104,9	108,6					

Table 7 – Total volume of electricity imported: 2003 to 2008

Month	Gigawatt-hours								
	2003	2004	2005	2006	2007	2008			
January	705	828	729	872	1 088	638			
February	637	811	714	646	942	885			
March	706	863	533	581	973	802			
April	547	641	598	587	1 055	844			
May	569	547	849	879	900	1/ 762			
June	518	560	813	881	880				
July	792	607	856	926	984				
August	424	618	883	930	1 045				
September	266	590	686	971	1 026				
October	272	536	836	682	1 040				
November	583	746	865	862	796				
December	720	679	837	965	619				
Year	6 739	8 026	9 199	9 782	11 348				

<sup>1/</sup> Preliminary.

Table 8 – Total volume of electricity exported: 2003 to 2008

Month	Gigawatt-hours								
Month	2003	2003 2004		2006	2007	2008			
January	578	1 037	1 030	1 056	1 134	1 278			
February	508	977	901	1 050	1 060	1 101			
March	607	1 027	968	1 129	1 231	1 136			
April	619	951	991	1 017	1 132	998			
May	805	944	1 083	1 046	1 203	1/ 1 119			
June	798	1 057	1 096	1 102	1 256				
July	944	1 140	1 102	1 239	1 301				
August	1 030	1 049	1 144	1 262	1 252				
September	1 051	1 048	1 134	1 239	1 186				
October	1 116	1 112	1 161	1 311	1 252				
November	1 025	1 082	1 119	1 186	1 256				
December	1 055	1 029	1 155	1 129	1 233				
Year	10 136	12 453	12 884	13 766	14 496				

<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)

				Giga	watt-hours	
		May 2007	April 2008	May 2008	% Change between	Difference between May 2007 and
				1/	May 2007 and May 2008	May 2008
Total - All	Electricity produced	22 849	20 816	22 362	-2,1	-487
producers	Purchased outside South Africa (import)	900	844	762	-15,3	-138
	Consumed in power stations and auxiliary systems	1 645	1 511	1 622	-1,4	-23
	Sold outside South Africa (export)	1 203	998	1 119	-7,0	-84
	Electricity available for distribution in South Africa	20 901	19 151	20 381	-2,5	-520
ESKOM	Electricity produced	22 061	19 863	21 416	-2,9	-645
	Purchased outside South Africa (import)	900	844	762	-15,3	-138
	Consumed in power stations and auxiliary systems	1 582	1 438	1 548	-2,1	-34
	Sold outside South Africa (export)	1 203	998	1 119	-7,0	-84
	Electricity available for distribution in South Africa	20 177	18 271	19 510	-3,3	-667

Table 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (cumulative figures)

			Gig	awatt-hours	
		January to May 2007	January to May 2008 1/	% Change between January to May 2007 and January to May 2008	Difference between January to May 2007 and January to May 2008
Total - All	Electricity produced	106 492	106 579	0,1	87
producers	Purchased outside South Africa (import)	4 958	3 931	-20,7	-1 027
	Consumed in power stations and auxiliary systems	7 785	7 737	-0,6	-48
	Sold outside South Africa (export)	5 760	5 632	-2,2	-128
	Electricity available for distribution in South Africa	97 905	97 137	-0,8	-768
ESKOM	Electricity produced	102 619	102 191	-0,4	-428
	Purchased outside South Africa (import)	4 958	3 931	-20,7	-1 027
	Consumed in power stations and auxiliary systems	7 474	7 390	-1,1	-84
	Sold outside South Africa (export)	5 760	5 632	-2,2	-128
	Electricity available for distribution in South Africa	94 344	93 097	-1,3	-1 247

<sup>1/</sup> Preliminary.

Table 10 – Electricity distributed by Eskom by province for 2007 and 2008 1/

		Gigawatt-hours									
		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
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
	May	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	1 904	884	401	790	3 581	2 254	4 930	2 764	927	18 435
	October	1 985	812	413	775	3 693	2 335	5 125	2 878	944	18 960
	November	1 907	763	419	801	3 574	2 285	4 963	2 773	915	18 400
	December	1 895	696	417	740	3 524	1 986	4 760	2 770	937	17 725
	Year	23 410	9 765	5 027	9 556	43 193	26 515	61 997	33 702	11 270	224 435
	Year to date	9 663	4 137	2 105	3 885	17 635	10 899	24 783	13 811	4 663	91 581
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 2/	1 985	760	373	796	3 417	2 141	5 414	2 990	1 015	18 891
	Year to date	9 582	3 799	1 921	3 711	17 044	10 756	24 644	13 848	4 655	89 960

<sup>1/</sup> Wholesale energy as delivered by Eskom to the various provinces.2/ Preliminary.

#### **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 May 2008 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

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 statistics

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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

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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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#### Advanced release calendar

An advanced release calendar is disseminated on www.statssa.gov.za

#### Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
National Library of South Africa, Cape Town Division
Natal Society Library, Pietermaritzburg
Library of Parliament, Cape Town
Bloemfontein Public Library
Johannesburg Public Library
Eastern Cape Library Services, King William's Town
Central Regional Library, Polokwane
Central Reference Library, Nelspruit
Central Reference Collection, Kimberley
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#### **General enquiries**

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email: gerdab@statssa.gov.za (technical enquiries)

nicolaic@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services)

distribution@statssa.gov.za (orders)

Postal address: Private Bag X44, Pretoria, 0001

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