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Statistical release P4141

Electricity generated and available for distribution (Preliminary)

October 2011

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Results for October 2011

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

Actual estimates	October 2011 1/	% change between October 2010 and October 2011	% change between August to October 2010 and August to October 2011	% change between January to October 2010 and January to October 2011
Electricity available for distribution (Gigawatt-hours)	20 198	-0,8	0,4	1,0
Index of the physical volume of electricity production (2005=100)	109,2	-1,4	0,5	1,3

1/ Preliminary.

Seasonally adjusted estimates 1/	October 2011	% change between September and October 2011	% change between May to July 2011 and August to October 2011	
Electricity available for distribution (Gigawatt-hours)	19 884	0,2	-0,5	
Index of the physical volume of electricity production (2005=100)	106,9	0,6	-0,6	

1/ See explanatory note 18 on page 10 for changes to seasonal adjustment methodology in this release.

Consumption of electricity

The actual volume of electricity consumed decreased by 0,8% (-173 Gigawatt-hours) year-on-year in October 2011 (see Tables A, 2 and 9a). Electricity consumption for the three months ended October 2011 increased by 0,4% (267 Gigawatt-hours) compared with the same period in 2010 (see Tables A and C). However, seasonally adjusted electricity consumption decreased by 0,5% in the three months ended October 2011 compared with the three months ended July 2011 (see Tables A and B).

Production of electricity

The actual estimated electricity production decreased by 1,4% year-on-year in October 2011 (see Tables A, 5 and 9a). The estimated electricity production for the three months ended October 2011 increased by 0,5% compared with the same period in 2010 (see Table A). However, seasonally adjusted electricity production decreased by 0,6% in the three months ended October 2011 (see Table A).

Electricity delivered by Eskom to the provinces

Electricity delivered by Eskom to the provinces decreased by 0,6% (-116 Gigawatt-hours) in October 2011 compared with October 2010. The biggest decrease was reported for Western Cape (-110 Gigawatt-hours). The total volume of electricity delivered by Eskom to the provinces for the first ten months of 2011 grew by 0,3% (481 Gigawatt-hours) compared with the same period in 2010 (see Table 10).

International trade in electricity

The volume of electricity purchased from outside South African borders (imports) increased by 18,3% (141 Gigawatt-hours) in October 2011 compared with October 2010. For the first ten months of 2011 imports decreased by 5,0% (-515 Gigawatt-hours) year-on-year (see Tables 9a and 9b).

The volume of electricity sold to neighbouring countries (exports) increased by 3,0% (40 Gigawatt-hours) year-on-year in October 2011. For the first ten months of 2011 exports increased by 1,3% (154 Gigawatt-hours) year-on-year (see Tables 9a and 9b).

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended October 2011 and the previous three months 1/

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Gigawatt-hours	Seasonally adjusted quantity May to July 2011	Seasonally adjusted quantity August to October 2011	% change between May to July 2011 and August to October 2011	Quantity difference between May to July 2011 and August to October 2011
Electricity produced	65 460	65 110	-0,6	-350
Electricity available for distribution in South Africa	59 923	59 611	-0,5	-312

1/ See explanatory note 18 on page 10 for changes to seasonal adjustment methodology in this release.

Table C – Comparison of actual estimates between the three months ended October 2011 and the three months ended October 2010

Gigawatt-hours	Actual volume August to October 2010	Actual volume August to October 2011	% change between August to October 2010 and August to October 2011	Quantity difference between August to October 2010 and August to October 2011
Electricity produced	65 930	66 231	0,5	301
Purchased outside South Africa (import) 1/	2 947	2 993	1,6	46
Consumed in power stations and auxiliary systems	4 849	4 826	-0,5	-23
Sold outside South Africa (export) 2/	3 861	3 964	2,7	103
Electricity available for distribution in South Africa	60 167	60 434	0,4	267

1/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

2/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

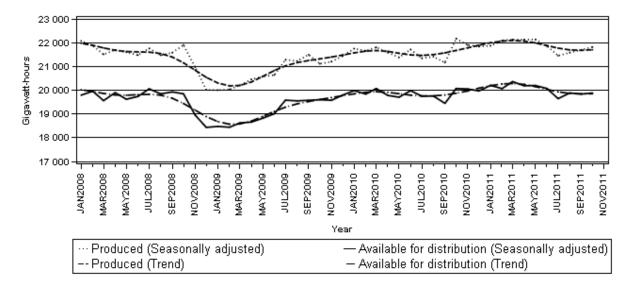


Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend

PJ Lehohla Statistician-General

Tables

Table 1 – Total volume of electricity available for distribution in South Africa: 2006–2011

Manth	Gigawatt-hours									
Month	2006	2007	2007 2008		2010	2011				
January	18 603	19 561	19 256	17 919	19 396	19 616				
February	17 396	18 301	18 668	16 757	18 181	18 455				
March	18 982	20 160	19 603	18 694	20 186	20 518				
April	18 122	18 982	19 127	17 934	19 102	19 539				
Мау	20 312	20 901	20 365	19 548	20 435	20 938				
June	20 166	21 020	20 515	19 819	20 800	20 914				
July	20 632	21 780	21 610	21 151	21 307	21 162				
August	20 307	21 353	20 736	20 398	20 540	20 617				
September	18 987	19 732	19 725	19 382	19 256	19 619				
October	19 663	20 435	20 138	19 899	20 371	1/ 20 198				
November	19 244	19 785	18 640	19 248	19 702					
December	18 909	19 160	17 541	18 850	18 996					
Year	231 323	241 170	235 924	229 599	238 272					

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1/ Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2006–2011

Month	Percentage change 2/								
WOITIN	2006	2007	2008	2009	2010	2011			
January	2,5	5,1	-1,6	-6,9	8,2	1,1			
February	1,3	5,2	2,0	-10,2	8,5	1,5			
March	2,7	6,2	-2,8	-4,6	8,0	1,6			
April	-0,1	4,7	0,8	-6,2	6,5	2,3			
Мау	5,7	2,9	-2,6	-4,0	4,5	2,5			
June	6,2	4,2	-2,4	-3,4	4,9	0,5			
July	5,0	5,6	-0,8	-2,1	0,7	-0,7			
August	5,8	5,2	-2,9	-1,6	0,7	0,4			
September	3,3	3,9	0,0	-1,7	-0,7	1,9			
October	2,8	3,9	-1,5	-1,2	2,4	-0,8			
November	3,9	2,8	-5,8	3,3	2,4	<u>-</u>			
December	3,7	1,3	-8,4	7,5	0,8				
Year	3,6	4,3	-2,2	-2,7	3,8				

2/ The annual percentage change is the change in the volume of electricity available for distribution of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2006–2011 1/

		Gigawatt-hours										
Month	2006	2007	2008	2009	2010	2011	% change between current and previous month					
January	19 088	20 060	19 794	18 479	19 989	20 207	1,2					
February	18 971	19 943	19 962	18 443	19 839	20 070	-0,7					
March	18 962	20 141	19 563	18 625	20 074	20 366	1,5					
April	18 939	19 793	19 900	18 661	19 782	20 190	-0,9					
Мау	19 559	20 149	19 622	18 822	19 708	20 200	0,0					
June	19 414	20 256	19 739	19 012	19 985	20 075	-0,6					
July	19 223	20 287	20 060	19 583	19 752	19 648	-2,1					
August	19 431	20 460	19 849	19 554	19 757	19 886	1,2					
September	19 219	19 949	19 931	19 577	19 450	19 841	-0,2					
October	19 341	20 133	19 850	19 604	20 075	19 884	0,2					
November	19 535	20 081	18 958	19 577	20 054		· · ·					
December	19 716	20 012	18 436	19 796	19 973							

1/ See explanatory note 18 on page 10 for changes to seasonal adjustment methodology in this release.

Table 4 – Indices of the physical volume of electricity production: 2006–2011

Month						
WOITT	2006	2007	2008	2009	2010	2011
January	99,8	103,9	105,3	95,0	103,4	104,0
February	94,0	97,2	99,7	88,5	96,5	98,9
March	103,3	107,8	105,6	99,3	107,4	109,2
April	98,0	100,9	102,0	96,1	102,0	104,8
May	108,1	111,9	109,6	104,5	108,5	112,2
June	107,3	112,5	108,8	104,8	110,1	110,8
July	110,8	116,6	115,1	112,8	113,0	113,2
August	109,1	114,1	110,3	108,8	109,4	110,0
September	101,8	105,5	104,8	104,4	102,8	105,3
October	107,2	109,1	109,4	105,6	110,8	1/ 109,2
November	103,3	106,9	101,4	102,6	105,9	
December	100,9	104,6	93,6	100,3	102,1	
Year	103,6	107,6	105,5	101,9	106,0	

1/ Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2006–2011

Month	Percentage change 2/									
MOILII	2006	2007	2008	2009	2010	2011				
January	2,3	4,1	1,3	-9,8	8,8	0,6				
February	2,5	3,4	2,6	-11,2	9,0	2,5				
March	3,1	4,4	-2,0	-6,0	8,2	1,7				
April	-0,1	3,0	1,1	-5,8	6,1	2,7				
Мау	5,1	3,5	-2,1	-4,7	3,8	3,4				
June	5,6	4,8	-3,3	-3,7	5,1	0,6				
July	5,0	5,2	-1,3	-2,0	0,2	0,2				
August	5,9	4,6	-3,3	-1,4	0,6	0,5				
September	2,7	3,6	-0,7	-0,4	-1,5	2,4				
October	4,6	1,8	0,3	-3,5	4,9	-1,4				
November	3,9	3,5	-5,1	1,2	3,2					
December	2,7	3,7	-10,5	7,2	1,8					
Year	3,7	3,8	-2,0	-3,4	4,0					

2/ The annual percentage change is the change in the index of the physical volume of electricity production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2006–2011 1/

		Base: 2005=100									
Month	2006	2007	2008	2009	2010	2011	% change between current and previous month				
January	102,4	106,6	108,1	98,0	106,6	107,1	0,1				
February	103,0	106,6	107,2	98,1	106,1	108,3	1,1				
March	103,2	107,7	105,4	99,0	106,8	108,4	0,1				
April	102,5	105,4	106,3	100,2	105,8	108,4	0,0				
Мау	104,4	108,2	105,8	100,8	104,7	108,5	0,1				
June	103,6	108,9	105,2	101,1	106,4	107,1	-1,3				
July	102,9	108,3	106,6	104,3	104,6	105,1	-1,9				
August	104,1	108,9	105,2	104,0	104,9	105,7	0,6				
September	102,8	106,5	105,7	105,3	103,7	106,3	0,6				
October	105,0	107,0	107,3	103,4	108,6	106,9	0,6				
November	104,6	108,2	102,8	103,9	107,3						
December	105,0	108,8	98,1	105,0	107,0						

1/ See explanatory note 18 on page 10 for changes to seasonal adjustment methodology in this release.

Table 7 – Total volume of electricity imported: 2006–2011 1/

	Gigawatt-hours								
Month	2006	2007	2008	2009	2010	2011			
January	872	1 088	638	1 102	1 122	1 088			
February	646	942	885	999	995	730			
March	581	973	802	1 064	1 040	1 112			
April	587	1 055	844	906	931	912			
Мау	879	900	761	937	1 074	907			
June	881	880	1 002	1 088	1 019	1 009			
July	926	984	1 089	1 040	1 117	979			
August	930	1 045	1 076	1 072	1 109	1 108			
September	971	1 026	1 044	920	1 068	974			
October	682	1 040	645	1 115	770	2/911			
November	862	796	711	940	1 018				
December	965	619	1 075	1 112	930				
Year	9 782	11 348	10 572	12 295	12 193				

1/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.2/ Preliminary.

Table 8 – Total volume of electricity exported: 2006–2011

Month	Gigawatt-hours									
WOIth	2006	2007	2008	2009	2010	2011				
January	1 056	1 134	1 280	1 096	1 217	1 133				
February	1 050	1 060	1 101	979	1 128	1 069				
March	1 129	1 231	1 136	1 100	1 252	1 279				
April	1 017	1 132	998	1 086	1 170	1 190				
Мау	1 046	1 203	1 120	1 109	1 177	1 241				
June	1 102	1 256	1 162	1 175	1 132	1 174				
July	1 239	1 301	1 249	1 223	1 206	1 247				
August	1 262	1 252	1 220	1 235	1 275	1 298				
September	1 239	1 186	1 203	1 285	1 248	1 288				
October	1 311	1 252	1 258	1 288	1 338	2/ 1 378				
November	1 186	1 256	1 252	1 213	1 316					
December	1 129	1 233	1 189	1 263	1 209					
Year	13 766	14 496	14 168	14 052	14 668					

1/

1/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders. 2/ Preliminary.

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		Gigawatt-hours					
		October 2010	September 2011	October 2011 1/	% change between October 2010 and October 2011	Difference between October 2010 and October 2011	
Total - All	Electricity produced	22 624	21 493	22 295	-1,4	-329	
producers	Purchased outside South Africa (import) 2/	770	974	911	18,3	141	
	Consumed in power stations and auxiliary systems	1 685	1 561	1 630	-3,3	-55	
	Sold outside South Africa (export) 3/	1 338	1 288	1 378	3,0	40	
	Electricity available for distribution in South Africa	20 371	19 619	20 198	-0,8	-173	
ESKOM	Electricity produced	21 718	20 579	21 390	-1,5	-328	
	Purchased outside South Africa (import) 2/	770	974	911	18,3	141	
	Consumed in power stations and auxiliary systems	1 601	1 495	1 569	-2,0	-32	
	Sold outside South Africa (export) 3/	1 338	1 288	1 378	3,0	40	
	Electricity available for distribution in South Africa	19 549	18 770	19 354	-1,0	-195	

1/ Preliminary.

2/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.3/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

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 October 2010	January to October 2011 1/	% change between January to October 2010 and January to October 2011	Difference between January to October 2010 and January to October 2011	
Total - All	Electricity produced	217 138	219 965	1,3	2 827	
producers	Purchased outside South Africa (import) 2/	10 245	9 730	-5,0	-515	
	Consumed in power stations and auxiliary systems	15 663	15 822	1,0	159	
	Sold outside South Africa (export) 3/	12 143	12 297	1,3	154	
	Electricity available for distribution in South Africa	199 574	201 576	1,0	2 002	
ESKOM	Electricity produced	210 149	210 988	0,4	839	
	Purchased outside South Africa (import) 2/	10 245	9 730	-5,0	-515	
	Consumed in power stations and auxiliary systems	15 010	15 157	1,0	147	
	Sold outside South Africa (export) 3/	12 143	12 297	1,3	154	
	Electricity available for distribution in South Africa	193 237	193 267	0,0	30	

1/ Preliminary.

2/ Physical energy flowing into South Africa as measured by the metering systems at the South African borders.

3/ Physical energy flowing out of South Africa as measured by the metering systems at the South African borders.

		Gigawatt-hours 1/									
	Period	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2010	January	1 932	780	404	751	3 540	2 182	4 806	2 845	991	18 231
	February	1 842	719	383	706	3 281	2 029	4 592	2 658	917	17 127
	March	2 037	809	405	780	3 629	2 273	5 086	2 926	1 032	18 977
	April	1 873	750	362	735	3 432	2 100	4 959	2 813	970	17 994
	Мау	1 931	825	365	788	3 550	2 241	5 468	3 080	979	19 227
	June	1 946	828	378	813	3 559	2 159	5 836	3 011	991	19 521
	July	2 013	877	400	824	3 684	2 204	5 978	2 948	1 062	19 990
	August	1 968	827	386	779	3 595	2 167	5 360	2 802	1 038	18 922
	September	1 851	784	383	675	3 474	2 094	4 857	2 580	1 054	17 752
	October	1 911	846	429	724	3 577	2 276	5 009	2 907	1 088	18 767
	November	1 882	820	406	703	3 433	2 201	4 911	2 968	1 033	18 357
	December	1 907	781	418	694	3 371	2 004	4 645	2 945	1 044	17 809
	Year	23 093	9 646	4 719	8 972	42 125	25 930	61 507	34 483	12 199	222 674
	Year to date	19 304	8 045	3 895	7 575	35 321	21 725	51 951	28 570	10 122	186 508
2011	January	1 962	777	408	721	3 417	2 187	4 738	3 052	1 021	18 283
	February	1 881	734	372	665	3 256	2 044	4 394	2 808	937	17 091
	March	2 031	773	417	774	3 631	2 292	4 955	3 017	1 063	18 953
	April	1 877	726	389	753	3 432	2 159	5 016	2 946	992	18 290
	Мау	1 980	811	406	772	3 624	2 283	5 435	3 106	1 000	19 417
	June	1 966	826	417	812	3 527	2 097	5 804	2 945	1 020	19 414
	July	2 014	876	428	814	3 639	2 086	5 971	2 852	972	19 652
	August	1 985	884	414	783	3 574	2 029	5 727	2 830	960	19 186
	September	1 752	840	418	688	3 381	2 172	4 985	2 788	1 028	18 052
	October 2/	1 801	840	447	709	3 547	2 268	4 991	2 997	1 051	18 651
	Year to date	19 249	8 087	4 116	7 491	35 028	21 617	52 016	29 341	10 044	186 989

Table 10 – Total volume of electricity delivered by Eskom to provinces for 2010 and 2011

1/ Wholesale energy (Gigawatt-hours) as delivered by Eskom to the various provinces. 2/ Preliminary.

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 volume of electricity units generated and available for distribution in South Africa, the volume of units purchased and sold outside South Africa and the volume 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.
Purpose of the survey	4	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 survey	5	This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of electricity. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.
Classification	6	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.
Response rate	7	The response rate for the survey on electricity generated and available for distribution for October 2011 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 <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.
	10	The survey is conducted by mail, email and telephone. Information is collected from a sample of 23 electricity undertakings or establishments.
Monthly production indices	11	The calculation of the monthly production indices is based on the volume 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. These levels are weighted according to the original sample and designed 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 a benchmark 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 adjustment	14	Seasonally adjusted estimates of all items are generated each month, using the X-12-ARIMA 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 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	15	The trend is the long-term pattern or movement of a time series. The X-12-ARIMA Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.
Related publications	16	 Users may also wish to refer to the following publications which are available from Stats SA : Bulletin of Statistics; and SA Statistics.
Rounding-off of figures	17	Where necessary, the figures in the tables have 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.
Changes in this release	18	This is the first time that the time series of electricity generated and available for distribution has been seasonally adjusted by using the X12-ARIMA Seasonal Adjustment Program. Previously the time series was seasonally adjusted using the X11 Seasonal Adjustment Program. Results derived from the X12-ARIMA model might differ slightly from the previous results derived from the X11 model. The X12-ARIMA procedure for electricity generated and available for distribution is described in more detail on the Stats SA website at http://www.statssa.gov.za/publications/P4141/electricity_seasonal_adjustment_note_2011.pdf

Glossary							
Consumption of electricity		For purposes of this release the term 'consumption of electricity' is used interchangeably with the term 'electricity available for distribution'.					
Electricity undertaking	transmiss which, as	An electricity undertaking is an undertaking concerned with the generation of 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 <i>System of National Accounts (1993 SNA)</i> 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 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 ISIC SIC Stats SA *	Gross domestic product International Standard Industrial Classification Standard Industrial Classification of all Economic Activities Statistics South Africa Revised figures					

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