

Statistical release

P4141

Electricity generated and available for distribution (Preliminary)

December 2011

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Enquiries:

User Information Services
Tel: (012) 310 8600 / 4892 /8390

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Results for December 2011

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

Actual estimates	December 2011 1/	% change between December 2010 and December 2011	% change between October to December 2010 and October to December 2011	% change between January to December 2010 and January to December 2011
Electricity available for distribution (Gigawatt-hours)	19 200	1,1	0,2	1,0
Index of the physical volume of electricity production (2005=100)	102,5	0,4	-0,3	1,1

1/ Preliminary.

Seasonally adjusted estimates	December 2011	% change between November and December 2011	% change between July to September 2011 and October to December 2011
Electricity available for distribution (Gigawatt-hours)	20 184	0,3	1,4
Index of the physical volume of electricity production (2005=100)	107,4	0,0	1,4

Consumption of electricity

Seasonally adjusted electricity consumption increased by 1,4% for the fourth quarter of 2011 compared with the third quarter of 2011. In December 2011, a month-on-month increase of 0,3% was recorded, following month-on-month changes of 1,0% in November 2011 and 0,4% in October 2011.

The total volume of electricity consumption for 2011 increased by 1,0% compared with 2010. In December 2011, a year-on-year increase of 1,1% was recorded.

Production of electricity

Seasonally adjusted electricity production increased by 1,4% in the fourth quarter of 2011 compared with the third quarter of 2011. In December 2011, there was no month-on-month growth, following month-on-month changes of 0,3% in November 2011 and 0,7% in October 2011.

The total production of electricity for 2011 increased by 1,1% compared with 2010. Electricity production increased by 0,4% year-on-year in December 2011.

Electricity delivered by Eskom to the provinces

The total volume of electricity delivered by Eskom to the provinces for 2011 remained stable when compared with 2010. The large increases in volume terms recorded for Mpumalanga and Northern Cape were to a large extent counteracted by decreases recorded for Western Cape, Gauteng, KwaZulu-Natal and Free State.

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the fourth quarter of 2011 and the previous quarter

Gigawatt-hours	Seasonally adjusted quantity July to September 2011	Seasonally adjusted quantity October to December 2011	% change between July to September 2011 and October to December 2011	Quantity difference between July to September 2011 and October to December 2011
Electricity produced	64 771	65 739	1,4	968
Electricity available for distribution in South Africa	59 388	60 249	1,4	861

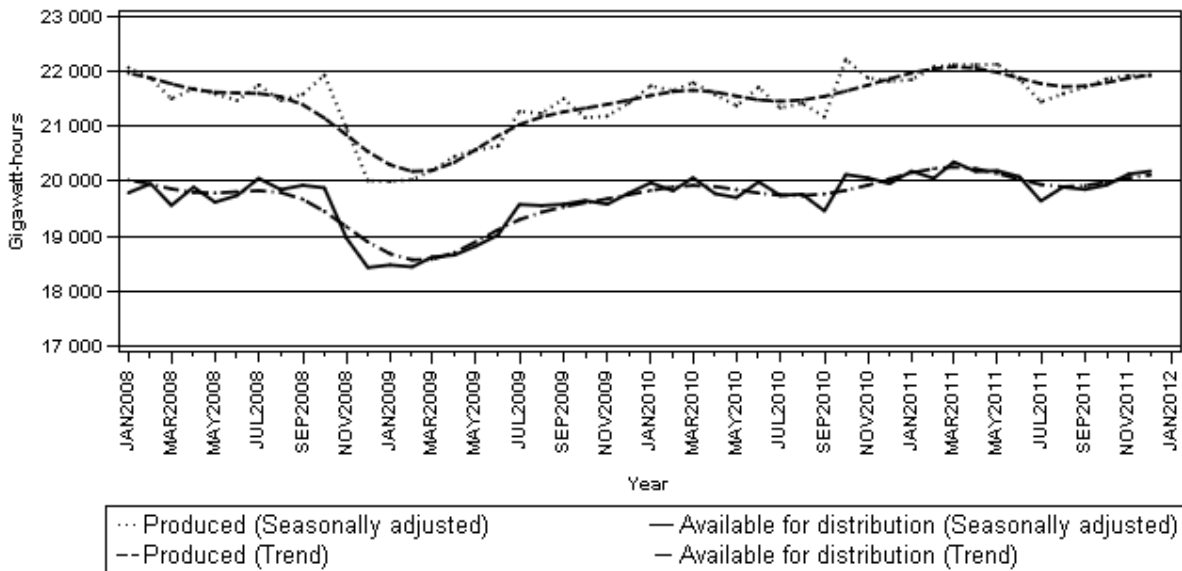
Table C – Comparison of actual estimates between the fourth quarter of 2011 and the fourth quarter of 2010

Gigawatt-hours	Actual volume October to December 2010	Actual volume October to December 2011	% change between October to December 2010 and October to December 2011	Quantity difference between October to December 2010 and October to December 2011
Electricity produced	65 087	64 879	-0,3	-208
Purchased outside South Africa (import) 1/	2 718	3 071	13,0	353
Consumed in power stations and auxiliary systems	4 873	4 746	-2,6	-127
Sold outside South Africa (export) 2/	3 863	4 045	4,7	182
Electricity available for distribution in South Africa	59 069	59 161	0,2	92

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

Month	Gigawatt-hours					
	2006	2007	2008	2009	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
May	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	20 198
November	19 244	19 785	18 640	19 248	19 702	19 763
December	18 909	19 160	17 541	18 850	18 996	1/ 19 200
Year	231 323	241 170	235 924	229 599	238 272	240 539

1/ Preliminary.

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

Month	Percentage change 2/					
	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
May	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	0,3
December	3,7	1,3	-8,4	7,5	0,8	1,1
Year	3,6	4,3	-2,2	-2,7	3,8	1,0

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

Month	Gigawatt-hours						% change between current and previous month
	2006	2007	2008	2009	2010	2011	
January	19 089	20 060	19 793	18 473	19 975	20 186	1,1
February	18 971	19 942	19 957	18 437	19 827	20 054	-0,7
March	18 962	20 141	19 560	18 619	20 066	20 355	1,5
April	18 938	19 790	19 895	18 653	19 774	20 180	-0,9
May	19 557	20 147	19 620	18 817	19 703	20 194	0,1
June	19 414	20 258	19 742	19 019	19 991	20 085	-0,5
July	19 223	20 285	20 055	19 577	19 744	19 641	-2,2
August	19 430	20 458	19 850	19 557	19 764	19 895	1,3
September	19 215	19 943	19 928	19 581	19 459	19 852	-0,2
October	19 346	20 148	19 881	19 648	20 124	19 933	0,4
November	19 538	20 085	18 963	19 583	20 063	20 132	1,0
December	19 715	20 008	18 425	19 782	19 958	20 184	0,3

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

Month	Base: 2005=100					
	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	109,2
November	103,3	106,9	101,4	102,6	105,9	106,1
December	100,9	104,6	93,6	100,3	102,1	1/ 102,5
Year	103,6	107,6	105,5	101,9	106,0	107,2

1/ Preliminary.

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

Month	Percentage change 2/					
	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
May	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	0,2
December	2,7	3,7	-10,5	7,2	1,8	0,4
Year	3,7	3,8	-2,0	-3,4	4,0	1,1

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

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

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

Month	Gigawatt-hours					
	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
May	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	911
November	862	796	711	940	1 018	1 073
December	965	619	1 075	1 112	930	2/ 1 087
Year	9 782	11 348	10 572	12 295	12 193	11 890

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 1/

Month	Gigawatt-hours					
	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
May	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	1 378
November	1 186	1 256	1 252	1 213	1 316	1 381
December	1 129	1 233	1 189	1 263	1 209	2/ 1 286
Year	13 766	14 496	14 168	14 052	14 668	14 964

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

2/ 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)

		Gigawatt-hours				
		December 2010	November 2011	December 2011 1/	% change between December 2010 and December 2011	Difference between December 2010 and December 2011
Total - All producers	Electricity produced	20 840	21 665	20 920	0,4	80
	Purchased outside South Africa (import) 2/	930	1 073	1 087	16,9	157
	Consumed in power stations and auxiliary systems	1 565	1 594	1 522	-2,7	-43
	Sold outside South Africa (export) 3/	1 209	1 381	1 286	6,4	77
	Electricity available for distribution in South Africa	18 996	19 763	19 200	1,1	204
ESKOM	Electricity produced	20 229	20 769	19 989	-1,2	-240
	Purchased outside South Africa (import) 2/	930	1 073	1 087	16,9	157
	Consumed in power stations and auxiliary systems	1 509	1 524	1 453	-3,7	-56
	Sold outside South Africa (export) 3/	1 209	1 381	1 286	6,4	77
	Electricity available for distribution in South Africa	18 441	18 937	18 337	-0,6	-104

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 December 2010	January to December 2011 1/	% change between January to December 2010 and January to December 2011	Difference between January to December 2010 and January to December 2011
Total - All producers	Electricity produced	259 601	262 549	1,1	2 948
	Purchased outside South Africa (import) 2/	12 193	11 890	-2,5	-303
	Consumed in power stations and auxiliary systems	18 851	18 938	0,5	87
	Sold outside South Africa (export) 3/	14 668	14 964	2,0	296
	Electricity available for distribution in South Africa	238 272	240 539	1,0	2 267
ESKOM	Electricity produced	251 257	251 746	0,2	489
	Purchased outside South Africa (import) 2/	12 193	11 890	-2,5	-303
	Consumed in power stations and auxiliary systems	18 070	18 134	0,4	64
	Sold outside South Africa (export) 3/	14 668	14 964	2,0	296
	Electricity available for distribution in South Africa	230 709	230 541	-0,1	-168

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

Period	Gigawatt-hours										
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	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
	May	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	
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
	May	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	1 801	840	447	709	3 547	2 268	4 991	2 997	1 051	18 651
	November	1 767	840	428	666	3 429	2 248	4 814	2 916	1 035	18 143
	December 2/	1 763	783	441	647	3 466	2 107	4 426	2 895	1 050	17 578
Year	22 779	9 710	4 985	8 804	41 923	25 972	61 256	35 152	12 129	222 710	

1/ Wholesale energy (Gigawatt-hours) 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 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 *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 December 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 *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.
 - 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. 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
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 : <ul style="list-style-type: none">• <i>Bulletin of Statistics</i>; and• <i>SA Statistics</i>.
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.

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	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 <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	<table border="0"> <tr> <td>GDP</td> <td>Gross domestic product</td> </tr> <tr> <td>ISIC</td> <td>International Standard Industrial Classification</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>*</td> <td>Revised figures</td> </tr> </table>	GDP	Gross domestic product	ISIC	International Standard Industrial Classification	SIC	Standard Industrial Classification of all Economic Activities	Stats SA	Statistics South Africa	*	Revised figures
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Fax number: (012) 310 8664 (technical enquiries)

Email: onicama@statssa.gov.za (technical enquiries)
nicolaic@statssa.gov.za (technical enquiries)
info@statssa.gov.za (user information services)
magdaj@statssa.gov.za (orders/subscription services)

Postal address: Private Bag X44, Pretoria, 0001

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