



Statistics
South Africa



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Statistical release

P4141

Electricity generated and available for distribution (Preliminary)

December 2013

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Results for December 2013

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

Actual estimates	December 2013	% change between December 2012 and December 2013	% change between October to December 2012 and October to December 2013	% change between January to December 2012 and January to December 2013
Electricity available for distribution (Gigawatt-hours)	18 701	1,3	0,3	-0,5
Index of the physical volume of electricity production (2010=100)	93,2	-0,9	-1,8	-0,7

1/ Preliminary.

Seasonally adjusted estimates	December 2013	% change between November and December 2013	% change between July to September 2013 and October to December 2013
Electricity available for distribution (Gigawatt-hours)	19 605	2,2	-1,4
Index of the physical volume of electricity production (2010=100)	97,7	0,8	-1,7

Consumption of electricity

The actual volume of electricity consumption increased by 1,3% year-on-year in December 2013. Seasonally adjusted electricity consumption increased by 2,2% month-on-month in December 2013, following a month-on-month decrease of 1,5% in November 2013. Seasonally adjusted electricity consumption decreased by 1,4% in the fourth quarter of 2013 compared with the previous quarter. Annual consumption of electricity decreased by 0,5% in 2013 compared with 2012.

Production of electricity

The actual estimated electricity production decreased by 0,9% year-on-year in December 2013. Seasonally adjusted electricity production increased by 0,8% month-on-month in December 2013, following a month-on-month decrease of 0,8% in November 2013. Seasonally adjusted electricity production decreased by 1,7% in the fourth quarter of 2013 compared with the previous quarter. Annual production of electricity decreased by 0,7% in 2013 compared with 2012.

Electricity delivered by Eskom to the provinces

The total volume of electricity delivered by Eskom to the provinces decreased by 0,5% (-1 064 Gigawatt-hours) in 2013 compared with 2012. Decreases were reported in five of the nine provinces, with the largest volume decrease recorded for North West (-686 Gigawatt-hours), followed by Free State (-676 Gigawatt-hours) and Gauteng (-608 Gigawatt-hours). KwaZulu-Natal recorded the largest volume increase (771 Gigawatt-hours) over this period.

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution in the fourth quarter of 2013 and the previous quarter

Gigawatt-hours	Seasonally adjusted quantity July to September 2013	Seasonally adjusted quantity October to December 2013	% change between July to September 2013 and October to December 2013	Quantity difference between July to September 2013 and October to December 2013
Electricity produced	64 392	63 274	-1,7	-1 118
Electricity available for distribution in South Africa	59 115	58 273	-1,4	-842

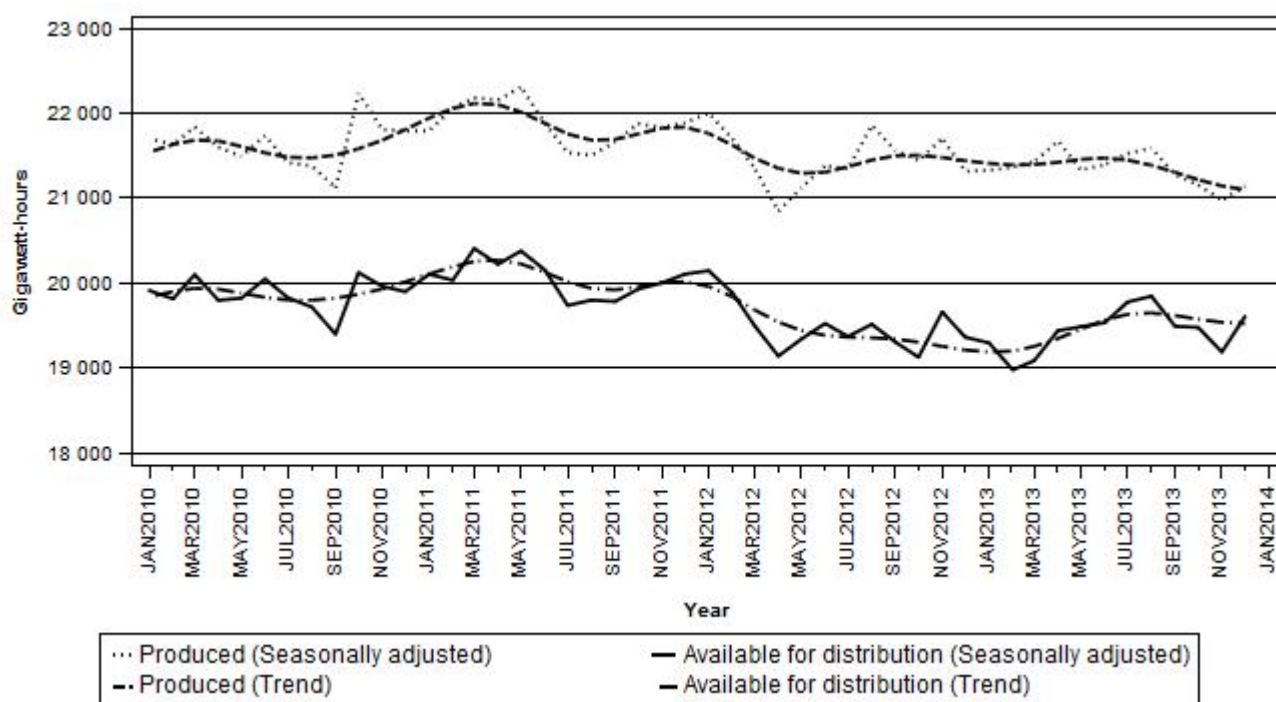
Table C – Comparison of actual estimates between the fourth quarter of 2013 and the fourth quarter of 2012

Gigawatt-hours	Actual volume October to December 2012	Actual volume October to December 2013	% change between October to December 2012 and October to December 2013	Quantity difference between October to December 2012 and October to December 2013
Electricity produced	63 758	62 591	-1,8	-1 167
Purchased outside South Africa (import) 1/	1 893	2 797	47,8	904
Consumed in power stations and auxiliary systems	4 664	4 426	-5,1	-238
Sold outside South Africa (export) 2/	3 693	3 512	-4,9	-181
Electricity available for distribution in South Africa	57 295	57 450	0,3	155

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



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Statistician-General

Tables

Table 1 – Total volume of electricity available for distribution in South Africa: 2008–2013

Month	Gigawatt-hours					
	2008	2009	2010	2011	2012	2013
January	19 256	17 919	19 396	19 616	19 676	18 860
February	18 668	16 757	18 181	18 455	18 783	17 493
March	19 603	18 694	20 186	20 518	19 623	19 202
April	19 127	17 934	19 102	19 539	18 466	18 762
May	20 365	19 548	20 435	20 938	19 869	19 991
June	20 515	19 819	20 800	20 914	20 274	20 270
July	21 610	21 151	21 307	21 162	20 743	21 119
August	20 736	20 398	20 540	20 617	20 345	20 689
September	19 725	19 382	19 256	19 619	19 100	19 269
October	20 138	19 899	20 371	20 198	19 413	19 781
November	18 640	19 248	19 702	19 763	19 426	18 968
December	17 541	18 850	18 996	19 189	18 456	1/ 18 701
Year	235 924	229 599	238 272	240 528	234 174	233 105

1/ Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2008–2013

Month	Percentage change 2/					
	2008	2009	2010	2011	2012	2013
January	-1,6	-6,9	8,2	1,1	0,3	-4,1
February	2,0	-10,2	8,5	1,5	1,8	-6,9
March	-2,8	-4,6	8,0	1,6	-4,4	-2,1
April	0,8	-6,2	6,5	2,3	-5,5	1,6
May	-2,6	-4,0	4,5	2,5	-5,1	0,6
June	-2,4	-3,4	4,9	0,5	-3,1	0,0
July	-0,8	-2,1	0,7	-0,7	-2,0	1,8
August	-2,9	-1,6	0,7	0,4	-1,3	1,7
September	0,0	-1,7	-0,7	1,9	-2,6	0,9
October	-1,5	-1,2	2,4	-0,8	-3,9	1,9
November	-5,8	3,3	2,4	0,3	-1,7	-2,4
December	-8,4	7,5	0,8	1,0	-3,8	1,3
Year	-2,2	-2,7	3,8	0,9	-2,6	-0,5

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: 2008–2013

Month	Gigawatt-hours						% change between current and previous month
	2008	2009	2010	2011	2012	2013	
January	19 767	18 427	19 912	20 104	20 146	19 296	-0,3
February	19 917	18 427	19 815	20 035	19 886	18 979	-1,6
March	19 574	18 643	20 100	20 408	19 498	19 087	0,6
April	19 892	18 666	19 798	20 222	19 141	19 440	1,8
May	19 637	18 876	19 823	20 379	19 341	19 487	0,2
June	19 777	19 063	20 050	20 156	19 525	19 534	0,2
July	20 098	19 639	19 826	19 737	19 372	19 778	1,2
August	19 865	19 555	19 718	19 800	19 515	19 846	0,3
September	19 891	19 532	19 398	19 784	19 304	19 491	-1,8
October	19 876	19 645	20 123	19 930	19 128	19 479	-0,1
November	18 937	19 515	19 963	20 002	19 660	19 189	-1,5
December	18 392	19 736	19 899	20 106	19 363	19 605	2,2

Table 4 – Indices of the physical volume of electricity production: 2008–2013

Month	Base: 2010=100					
	2008	2009	2010	2011	2012	2013
January	99,3	89,7	97,6	98,1	99,2	96,2
February	94,1	83,5	91,1	93,3	93,8	90,5
March	99,6	93,7	101,3	103,0	99,3	99,6
April	96,2	90,7	96,2	98,9	92,9	96,7
May	103,4	98,6	102,3	105,9	100,3	101,2
June	102,6	98,8	103,8	104,6	102,2	102,2
July	108,6	106,4	106,6	106,8	105,7	106,4
August	104,0	102,7	103,2	103,7	105,4	104,2
September	98,8	98,5	97,0	99,4	98,7	97,3
October	103,2	99,6	104,6	103,1	101,1	99,9
November	95,7	96,8	100,0	100,1	99,5	96,2
December	88,3	94,6	96,3	96,7	94,0	1/ 93,2
Year	99,5	96,1	100,0	101,1	99,3	98,6

1/ Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2008–2013

Month	Percentage change 2/					
	2008	2009	2010	2011	2012	2013
January	1,2	-9,7	8,8	0,5	1,1	-3,0
February	2,6	-11,3	9,1	2,4	0,5	-3,5
March	-2,1	-5,9	8,1	1,7	-3,6	0,3
April	1,1	-5,7	6,1	2,8	-6,1	4,1
May	-2,1	-4,6	3,8	3,5	-5,3	0,9
June	-3,3	-3,7	5,1	0,8	-2,3	0,0
July	-1,3	-2,0	0,2	0,2	-1,0	0,7
August	-3,3	-1,3	0,5	0,5	1,6	-1,1
September	-0,7	-0,3	-1,5	2,5	-0,7	-1,4
October	0,2	-3,5	5,0	-1,4	-1,9	-1,2
November	-5,1	1,1	3,3	0,1	-0,6	-3,3
December	-10,5	7,1	1,8	0,4	-2,8	-0,9
Year	-2,0	-3,4	4,1	1,1	-1,8	-0,7

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: 2008–2013

Month	Base: 2010=100						% change between current and previous month
	2008	2009	2010	2011	2012	2013	
January	101,9	92,2	100,2	100,7	101,7	98,5	0,0
February	101,1	92,5	99,9	101,9	100,2	98,7	0,2
March	99,4	93,4	100,9	102,5	98,7	99,0	0,3
April	100,2	94,5	99,8	102,4	96,3	100,1	1,1
May	99,9	95,3	99,3	103,1	97,6	98,6	-1,5
June	99,3	95,4	100,4	101,1	98,8	98,8	0,2
July	100,7	98,6	98,9	99,5	98,6	99,4	0,6
August	99,3	98,1	98,8	99,3	101,0	99,7	0,3
September	99,6	99,1	97,6	100,1	99,6	98,3	-1,4
October	101,4	97,8	102,7	101,1	99,1	97,7	-0,6
November	96,8	97,6	100,7	100,8	100,3	96,9	-0,8
December	92,3	98,8	100,7	101,1	98,5	97,7	0,8

Table 7 – Total volume of electricity imported: 2008–2013 1/

Month	Gigawatt-hours					
	2008	2009	2010	2011	2012	2013
January	638	1 102	1 122	1 088	1 085	676
February	885	999	995	730	1 063	407
March	802	1 064	1 040	1 112	945	455
April	844	906	931	912	1 068	559
May	761	937	1 074	907	1 066	919
June	1 002	1 088	1 019	1 009	1 044	881
July	1 089	1 040	1 117	979	903	965
August	1 076	1 072	1 109	1 108	465	930
September	1 044	920	1 068	974	474	839
October	645	1 115	770	911	451	891
November	711	940	1 018	1 073	654	854
December	1 075	1 112	930	1 087	788	2/ 1 052
Year	10 572	12 295	12 193	11 890	10 006	9 428

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: 2008–2013 1/

Month	Gigawatt-hours					
	2008	2009	2010	2011	2012	2013
January	1 280	1 096	1 217	1 133	1 247	1 115
February	1 101	979	1 128	1 069	1 212	1 095
March	1 136	1 100	1 252	1 279	1 242	1 187
April	998	1 086	1 170	1 190	1 174	1 132
May	1 120	1 109	1 177	1 241	1 322	1 196
June	1 162	1 175	1 132	1 174	1 335	1 158
July	1 249	1 223	1 206	1 247	1 350	1 183
August	1 220	1 235	1 275	1 298	1 295	1 185
September	1 203	1 285	1 248	1 288	1 165	1 166
October	1 258	1 288	1 338	1 378	1 300	1 237
November	1 252	1 213	1 316	1 381	1 233	1 219
December	1 189	1 263	1 209	1 286	1 160	2/ 1 056
Year	14 168	14 052	14 668	14 964	15 035	13 929

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 2012	November 2013	December 2013 1/	% change between December 2012 and December 2013	Difference between December 2012 and December 2013
Total - All producers	Electricity produced	20 345	20 822	20 168	-0,9	-177
	Purchased outside South Africa (import) 2/	788	854	1 052	33,5	264
	Consumed in power stations and auxiliary systems	1 516	1 489	1 463	-3,5	-53
	Sold outside South Africa (export) 3/	1 160	1 219	1 056	-9,0	-104
	Electricity available for distribution in South Africa	18 456	18 968	18 701	1,3	245
ESKOM	Electricity produced	19 505	19 910	19 219	-1,5	-286
	Purchased outside South Africa (import) 2/	788	854	1 052	33,5	264
	Consumed in power stations and auxiliary systems	1 453	1 433	1 393	-4,1	-60
	Sold outside South Africa (export) 3/	1 160	1 219	1 056	-9,0	-104
	Electricity available for distribution in South Africa	17 680	18 112	17 823	0,8	143

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 2012	January to December 2013 1/	% change between January to December 2012 and January to December 2013	Difference between January to December 2012 and January to December 2013
Total - All producers	Electricity produced	257 919	256 074	-0,7	-1 845
	Purchased outside South Africa (import) 2/	10 006	9 428	-5,8	-578
	Consumed in power stations and auxiliary systems	18 716	18 470	-1,3	-246
	Sold outside South Africa (export) 3/	15 035	13 929	-7,4	-1 106
	Electricity available for distribution in South Africa	234 174	233 105	-0,5	-1 069
ESKOM	Electricity produced	247 516	244 851	-1,1	-2 665
	Purchased outside South Africa (import) 2/	10 006	9 428	-5,8	-578
	Consumed in power stations and auxiliary systems	17 870	17 684	-1,0	-186
	Sold outside South Africa (export) 3/	15 035	13 929	-7,4	-1 106
	Electricity available for distribution in South Africa	224 620	222 668	-0,9	-1 952

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 2012 and 2013 1/

Period		Gigawatt-hours									Total South Africa
		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Limpopo	
2012	January	1 889	844	464	706	3 527	2 237	4 631	2 910	1 038	18 246
	February	1 922	816	403	668	3 271	2 034	4 509	2 779	988	17 390
	March	2 027	859	436	688	3 282	2 161	4 849	2 900	1 000	18 202
	April	1 846	763	391	655	3 154	1 993	4 624	2 800	937	17 163
	May	1 943	839	401	709	3 318	2 181	5 159	2 884	991	18 425
	June	1 933	802	406	775	3 315	2 205	5 643	2 816	974	18 869
	July	1 978	837	432	793	3 441	2 273	5 731	2 922	952	19 359
	August	1 993	838	420	776	3 436	2 186	5 540	2 767	937	18 893
	September	1 852	788	414	664	3 316	2 097	4 981	2 678	950	17 740
	October	1 885	795	418	703	3 458	2 085	4 856	2 884	988	18 072
	November	1 840	784	451	717	3 422	2 170	4 701	2 944	975	18 004
	December	1 867	751	433	633	3 355	2 039	4 213	2 805	959	17 055
	Year	22 975	9 716	5 069	8 487	40 295	25 661	59 437	34 089	11 689	217 418
2013	January	1 932	796	490	667	3 409	2 022	4 432	2 911	910	17 569
	February	1 825	751	441	618	3 137	1 900	4 216	2 517	811	16 216
	March	1 956	839	476	630	3 454	1 973	4 655	2 781	930	17 694
	April	1 833	802	416	615	3 351	2 000	4 754	2 732	901	17 404
	May	1 941	753	441	644	3 459	2 088	5 347	2 987	913	18 573
	June	1 902	741	440	689	3 425	2 149	5 344	3 091	994	18 775
	July	1 963	909	461	734	3 636	2 212	5 646	2 973	1 061	19 595
	August	1 970	869	456	702	3 576	2 185	5 415	2 969	1 060	19 202
	September	1 898	786	449	619	3 397	2 114	4 850	2 751	1 085	17 949
	October	1 885	810	479	660	3 520	2 158	4 938	2 942	1 058	18 450
	November	1 756	745	469	632	3 371	2 117	4 716	2 832	996	17 634
	December 2/	1 853	737	449	601	3 331	2 057	4 516	2 741	1 008	17 293
	Year	22 714	9 538	5 467	7 811	41 066	24 975	58 829	34 227	11 727	216 354

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 2010=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 (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.
Collection rate	7	The collection rate for the survey on electricity generated and available for distribution for December 2013 was 96%. The improved collection rate for November 2013 was 96%.
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 25 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 a time 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. 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_2012.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> • <i>SA Statistics;</i> and • <i>Stats in Brief.</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 2010. 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

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