

The South Africa I know, the home I understand

# Statistical release P4141

# Electricity generated and available for distribution (Preliminary)

December 2014

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### **Contents**

Results for December 2014	2
Table A – Selected key figures regarding electricity generated and available for distribution	2
Figure 1 – Electricity production in South Africa	2
Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution	
between the fourth quarter of 2014 and the previous quarter	3
Table C – Comparison of actual estimates between the fourth quarter of 2014 and the fourth quarter of 2013	3
Tables	4
Table 1 – Total volume of electricity available for distribution in South Africa: 2009–2014	4
Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2009–2014	4
Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2009–2014	4
Table 4 – Indices of the physical volume of electricity production: 2009–2014	5
Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2009–2014	5
Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2009–2014	5
Table 7 – Total volume of electricity imported: 2009–2014	6
Table 8 – Total volume of electricity exported: 2009–2014	6
Table 9a – Electricity produced and consumed in power stations, purchased and sold outside South Africa and	
available for distribution in South Africa (monthly figures)	7
Table 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and	
available for distribution in South Africa (cumulative figures)	7
Table 10 – Total volume of electricity delivered by Eskom to provinces for 2013 and 2014	8
Explanatory notes	9
Glossary	11
Technical enquiries	11
General information	12

### **Results for December 2014**

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

Actual estimates	December 2014	% change between December 2013 and December 2014	% change between October to December 2013 and October to December 2014	% change between January to December 2013 and January to December 2014
Electricity available for distribution (Gigawatt-hours)	18 406	-1,6	-1,1	-0,7
Index of the physical volume of electricity production (2010=100)	92,3	-1,0	-1,3	-1,4

Seasonally adjusted estimates	December 2014	% change between November and December 2014	% change between July to September 2014 and October to December 2014	
Electricity available for distribution (Gigawatt-hours)	19 206	0,2	0,1	
Index of the physical volume of electricity production (2010=100)	96,6	0,8	-0,7	

### Consumption of electricity

The actual estimated volume of electricity consumption decreased by 1,6% year-on-year in December 2014. Seasonally adjusted electricity consumption increased by 0,2% month-on-month in December 2014, following a month-on-month decrease of 0,7% in November 2014. Annual consumption of electricity decreased by 0,7% in 2014 compared with 2013.

### **Production of electricity**

Electricity production decreased by 1,0% year-on-year in December 2014. Seasonally adjusted electricity production increased by 0,8% month-on-month in December 2014, following a month-on-month decrease of 1,0% in November 2014. Annual production of electricity decreased by 1,4% in 2014 compared with 2013.

Figure 1 – Electricity production in South Africa

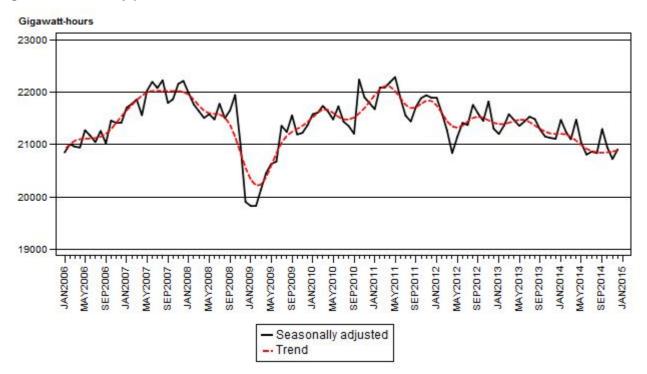


Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the fourth quarter of 2014 and the previous quarter

Gigawatt-hours	Seasonally adjusted volume July to September 2014	Seasonally adjusted volume October to December 2014	% change between July to September 2014 and October to December 2014	Quantity difference between July to September 2014 and October to December 2014
Electricity produced	62 997	62 576	-0,7	-421
Electricity available for distribution in South Africa	57 622	57 679	0,1	57

Table C - Comparison of actual estimates between the fourth quarter of 2014 and the fourth quarter of 2013

Gigawatt-hours	Actual volume October to December 2013	Actual volume October to December 2014	% change between October to December 2013 and October to December 2014	Quantity difference between October to December 2013 and October to December 2014
Electricity produced	62 590	61 772	-1,3	-818
Purchased outside South Africa (import) 1/	2 797	3 235	15,7	438
Consumed in power stations and auxiliary systems	4 426	4 520	2,1	94
Sold outside South Africa (export) 2/	3 512	3 680	4,8	168
Electricity available for distribution in South Africa	57 450	56 809	-1,1	-641

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

PJ Lehohla Statistician-General

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

### **Tables**

Table 1 - Total volume of electricity available for distribution in South Africa: 2009-2014

Month	Gigawatt-hours								
Month	2009	2010	2011	2012		2014			
January	17 919	19 396	19 616	19 676	18 860	19 409			
February	16 757	18 181	18 455	18 783	17 493	17 859			
March	18 694	20 186	20 518	19 623	19 202	19 328			
April	17 934	19 102	19 539	18 466	18 762	18 810			
May	19 548	20 435	20 938	19 869	19 991	19 794			
June	19 819	20 800	20 914	20 274	20 270	19 721			
July	21 151	21 307	21 162	20 743	21 119	20 454			
August	20 398	20 540	20 617	20 345	20 689	20 044			
September	19 382	19 256	19 619	19 100	19 269	19 217			
October	19 899	20 371	20 198	19 413	19 781	19 589			
November	19 248	19 702	19 763	19 426	18 968	18 814			
December	18 850	18 996	19 189	18 456	18 701	1/ 18 406			
Year	229 599	238 272	240 528	234 174	233 105	231 445			

<sup>1/</sup> Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2009–2014

Manth	% change 2/								
Month	2009	2010	2011	2012	2012         2013           0,3         -4,1           1,8         -6,9           -4,4         -2,1           -5,5         1,6           -5,1         0,6           -3,1         0,0           -2,0         1,8           -1,3         1,7           -2,6         0,9	2014			
January	-6,9	8,2	1,1	0,3	-4,1	2,9			
February	-10,2	8,5	1,5	1,8	-6,9	2,1			
March	-4,6	8,0	1,6	-4,4	-2,1	0,7			
April	-6,2	6,5	2,3	-5,5	1,6	0,3			
May	-4,0	4,5	2,5	-5,1	0,6	-1,0			
June	-3,4	4,9	0,5	-3,1	0,0	-2,7			
July	-2,1	0,7	-0,7	-2,0	1,8	-3,1			
August	-1,6	0,7	0,4	-1,3	1,7	-3,1			
September	-1,7	-0,7	1,9	-2,6	0,9	-0,3			
October	-1,2	2,4	-0,8	-3,9	1,9	-1,0			
November	3,3	2,4	0,3	-1,7	-2,4	-0,8			
December	7,5	0,8	1,0	-3,8	1,3	-1,6			
Year	-2,7	3,8	0,9	-2,6	-0,5	-0,7			

<sup>2/</sup> 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: 2009–2014

	Gigawatt-hours									
Month	2009	2010	2011	2012	2013	2014	% change between current and previous month			
January	18 212	19 723	19 916	19 967	19 113	19 673	0,8			
February	18 310	19 866	20 149	19 724	19 082	19 438	-1,2			
March	18 575	20 028	20 356	19 474	19 310	19 211	-1,2			
April	18 716	19 893	20 337	19 216	19 319	19 617	2,1			
May	18 933	19 842	20 361	19 341	19 476	19 287	-1,7			
June	19 031	19 987	20 109	19 514	19 546	19 052	-1,2			
July	19 587	19 787	19 699	19 348	19 733	19 101	0,3			
August	19 445	19 576	19 628	19 321	19 651	19 023	-0,4			
September	19 578	19 458	19 854	19 370	19 547	19 498	2,5			
October	19 833	20 274	20 058	19 219	19 535	19 308	-1,0			
November	19 650	20 092	20 121	19 763	19 300	19 165	-0,7			
December	19 686	19 867	20 079	19 305	19 523	19 206	0,2			

Table 4 – Indices of the physical volume of electricity production: 2009–2014

BA (I	Base: 2010=100								
Month	2009	2010	2011	2012	2013	2014			
January	89,7	97,6	98,1	99,2	96,2	97,5			
February	83,5	91,1	93,3	93,8	90,5	90,0			
March	93,7	101,3	103,0	99,3	99,6	98,4			
April	90,7	96,2	98,9	92,9	96,7	95,7			
May	98,6	102,3	105,9	100,3	101,2	99,6			
June	98,8	103,8	104,6	102,2	102,2	99,1			
July	106,4	106,6	106,8	105,7	106,4	103,2			
August	102,7	103,2	103,7	105,4	104,2	101,2			
September	98,5	97,0	99,4	98,7	97,3	97,4			
October	99,6	104,6	103,1	101,1	99,9	98,9			
November	96,8	100,0	100,1	99,5	96,2	94,3			
December	94,6	96,3	96,7	94,0	93,2	1/ 92,3			
Year	96,1	100,0	101,1	99,3	98,6	97,3			

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2009–2014

Manth	% change 2/									
Month	2009	2010	2011	2012	2013 -3,0 -3,5 0,3 4,1 0,9 0,0 0,7 -1,1 -1,4 -1,2 -3,3	2014				
January	-9,7	8,8	0,5	1,1	-3,0	1,4				
February	-11,3	9,1	2,4	0,5	-3,5	-0,6				
March	-5,9	8,1	1,7	-3,6	0,3	-1,2				
April	-5,7	6,1	2,8	-6,1	4,1	-1,0				
May	-4,6	3,8	3,5	-5,3	0,9	-1,6				
June	-3,7	5,1	0,8	-2,3	0,0	-3,0				
July	-2,0	0,2	0,2	-1,0	0,7	-3,0				
August	-1,3	0,5	0,5	1,6	-1,1	-2,9				
September	-0,3	-1,5	2,5	-0,7	-1,4	0,1				
October	-3,5	5,0	-1,4	-1,9	-1,2	-1,0				
November	1,1	3,3	0,1	-0,6	-3,3	-2,0				
December	7,1	1,8	0,4	-2,8	-0,9	-1,0				
Year	-3,4	4,1	1,1	-1,8	-0,7	-1,4				

<sup>2/</sup> 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: 2009-2014

		Base: 2010=100										
Month	2009	2010	2011	2012	2013	2014	% change between current and previous month					
January	91,6	99,7	100,1	101,2	98,0	99,2	1,7					
February	91,6	99,9	102,1	99,8	98,7	98,1	-1,1					
March	93,0	100,4	102,1	98,3	99,7	97,5	-0,6					
April	94,5	99,9	102,5	96,3	99,2	99,2	1,7					
May	95,3	99,2	103,0	97,7	98,7	97,2	-2,0					
June	95,5	100,4	101,2	98,9	99,1	96,1	-1,1					
July	98,7	99,1	99,6	98,8	99,5	96,4	0,3					
August	98,1	98,7	99,1	100,5	99,3	96,3	-0,1					
September	99,6	98,0	100,4	99,8	98,3	98,4	2,2					
October	97,9	102,8	101,1	99,1	97,7	96,8	-1,6					
November	98,1	101,2	101,4	100,8	97,6	95,8	-1,0					
December	98,7	100,7	101,2	98,4	97,5	96,6	0,8					

Table 7 - Total volume of electricity imported: 2009-2014 1/

No di	Gigawatt-hours								
Month	2009	2010	2011	2012	2013	2014			
January	1 102	1 122	1 088	1 085	676	1 020			
February	999	995	730	1 063 407		873			
March	1 064	1 040	1 112	945	455	854			
April	906	931	912 1 068		559	664			
May	937	1 074	907 1 066		919	902			
June	1 088	1 019	1 009	1 044	881	882			
July	1 040	1 117	979	903	965	945			
August	1 072	1 109	1 108	465	930	935			
September	920	1 068	974	474	839	867			
October	1 115	770	911	451	891	1 086			
November	940	1 018	1 073	654	854	1 120			
December	1 112	930	1 087	788 1 052		2/ 1 029			
Year	12 295	12 193	11 890	10 006	9 428	11 177			

<sup>1/</sup> 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: 2009-2014 1/

8.0 a 41.	Gigawatt-hours								
Month	2009	2010	2011	2012	2013	2014			
January	1 096	1 217	1 133	1 247	1 115	1 183			
February	979	1 128	1 069	1 212 1 095		1 085			
March	1 100	1 252	1 279	1 242	1 187	1 219			
April	1 086	1 170	1 190	1 174 1 132		999			
May	1 109	1 177	1 241	1 322	1 322 1 196				
June	1 175	1 132	1 174	1 335	1 158	1 092			
July	1 223	1 206	1 247	1 350	1 183	1 171			
August	1 235	1 275	1 298	1 295	1 185	1 167			
September	1 285	1 248	1 288	1 165	1 166	1 194			
October	1 288	1 338	1 378	1 300	1 237	1 363			
November	1 213	1 316	1 381	1 233	1 219	1 191			
December	1 263	1 209	1 286	1 160	1 056	2/ 1 126			
Year	14 052	14 668	14 964	15 035	13 929	13 836			

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

<sup>2/</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)

		Gigawatt-hours						
		December 2013	November 2014	December 2014	% change between December 2013 and December 2014	Difference between December 2013 and December 2014		
Total - All producers	Electricity produced	20 167	20 391	19 975	-1,0	-192		
	Purchased outside South Africa (import) 2/	1 052	1 120	1 029	-2,2	-23		
	Consumed in power stations and auxiliary systems	1 463	1 507	1 472	0,6	9		
	Sold outside South Africa (export) 3/	1 056	1 191	1 126	6,6	70		
	Electricity available for distribution in South Africa	18 701	18 814	18 406	-1,6	-295		
ESKOM	Electricity produced	19 219	19 416	18 939	-1,5	-280		
	Purchased outside South Africa (import) 2/	1 052	1 120	1 029	-2,2	-23		
	Consumed in power stations and auxiliary systems	1 393	1 444	1 401	0,6	8		
	Sold outside South Africa (export) 3/	1 056	1 191	1 126	6,6	70		
	Electricity available for distribution in South Africa	17 823	17 902	17 441	-2,1	-382		

<sup>1/</sup> Preliminary.

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 2013	January to December 2014 1/	% change between January to December 2013 and January to December 2014	Difference between January to December 2013 and January to December 2014		
Total - All producers	Electricity produced	256 073	252 578	-1,4	-3 495		
	Purchased outside South Africa (import) 2/	9 428	11 177	18,6	1 749		
	Consumed in power stations and auxiliary systems	18 470	18 474	-0,0	4		
	Sold outside South Africa (export) 3/	13 929	13 836	-0,7	-93		
	Electricity available for distribution in South Africa	233 105	231 445	-0,7	-1 660		
ESKOM	Electricity produced	244 851	240 401	-1,8	-4 450		
	Purchased outside South Africa (import) 2/	9 428	11 177	18,6	1 749		
	Consumed in power stations and auxiliary systems	17 684	17 591	-0,5	-93		
	Sold outside South Africa (export) 3/	13 929	13 836	-0,7	-93		
	Electricity available for distribution in South Africa	222 668	220 149	-1,1	-2 519		

<sup>1/</sup> Preliminary.

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

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

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

<sup>3/</sup> 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 2013 and 2014 1/

		Gigawatt-hours									
	Period	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
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	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
2014	January	1 963	674	400	654	3 569	2 093	4 559	2 868	982	17 762
	February	1 887	621	349	604	3 295	1 934	4 370	2 649	907	16 616
	March	1 967	750	365	649	3 507	1 975	4 747	2 842	973	17 775
	April	1 882	753	346	641	3 411	1 887	4 634	2 770	987	17 311
	May	1 953	799	368	662	3 538	1 985	5 121	2 922	1 029	18 377
	June	1 927	789	367	642	3 419	1 835	5 447	2 900	1 028	18 354
	July	2 050	778	361	665	3 397	2 174	5 584	2 962	1 019	18 990
	August	1 944	750	350	646	3 311	2 165	5 421	2 917	1 017	18 521
	September	1 865	715	356	619	3 271	1 965	5 066	2 828	1 057	17 742
	October	1 930	721	359	639	3 405	2 104	4 974	2 908	1 020	18 060
	November	1 814	677	370	609	3 305	2 050	4 806	2 800	973	17 404
	December 2/	1 861	708	421	615	3 225	1 988	4 382	2 679	972	16 851
	Year	23 043	8 735	4 412	7 645	40 653	24 155	59 111	34 045	11 964	213 763

<sup>1/</sup> Wholesale energy (Gigawatt-hours) as delivered by Eskom to the various provinces.

<sup>2/</sup> 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 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.

- 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.
- 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. 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.

### Collection rate 7

The collection rate for the survey on electricity generated and available for distribution for December 2014 was 95,8%. The improved collection rate for November 2014 was 100%.

### Statistical unit 8

9

11

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

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, email and telephone. Information is collected from a sample of 24 electricity undertakings or establishments.

## Monthly production indices

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.

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 14 adjustment

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 Click to download Electricity seasonal adjustment August 2014.pdf

### Trend cycle 15

16

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

Users may also wish to refer to the following publications which are available from Stats SA:

- Bulletin of Statistics;
- South African Statistics; and
- Stats in Brief.

## Rounding-off 17 of figures

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 *System of National Accounts* (SNA) in the same way as in the 1993 *Standard Industrial Classification of all Economic Activities* (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.

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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