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### Statistical release P4141

# Electricity generated and available for distribution (Preliminary)

August 2012

Embargoed until: 4 October 2012 13:00

**Enquiries:** 

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

**Expected release date:** 

September 2012

1 November 2012

#### **Contents**

Results for August 2012	2
Table A – Selected key figures regarding electricity generated and available for distribution	2
Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution	
between the three months ended August 2012 and the previous three months	3
Table C – Comparison of actual estimates between the three months ended August 2012 and the three months	
ended August 2011	3
Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend	3
Tables	4
Table 1 – Total volume of electricity available for distribution in South Africa: 2007–2012	4
Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2007–2012	4
Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2007–2012	4
Table 4 – Indices of the physical volume of electricity production: 2007–2012	5
Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2007–2012	5
Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2007–2012	5
Table 7 – Total volume of electricity imported: 2007–2012	6
Table 8 – Total volume of electricity exported: 2007–2012	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
Explanatory notes	9
Glossary	. 11
Technical enquiries	. 11
General information	. 12

#### **Results for August 2012**

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

Actual estimates	August 2012 1/	% change between August 2011 and August 2012	% change between June to August 2011 and June to August 2012	% change between January to August 2011 and January to August 2012
Electricity available for distribution (Gigawatt-hours)	20 345	-1,3	-2,1	-2,5
Index of the physical volume of electricity production (2005=100)	111,7	1,5	-0,6	-1,9

<sup>1/</sup> Preliminary.

Seasonally adjusted estimates	August 2012	% change between July and August 2012	% change between March to May 2012 and June to August 2012
Electricity available for distribution (Gigawatt-hours)	19 608	0,6	1,1
Index of the physical volume of electricity production (2005=100)	107,6	2,3	2,3

#### Consumption of electricity

Seasonally adjusted electricity consumption increased by 1,1% in the three months ended August 2012 compared with the previous three months. A month-on-month increase of 0,6% was recorded in August 2012, following a month-on-month decrease of 0,2% in July 2012.

A year-on-year decrease of 1,3% in the actual volume of electricity consumption was recorded in August 2012.

#### **Production of electricity**

Seasonally adjusted electricity production increased by 2,3% in the three months ended August 2012 compared with the previous three months. A month-on-month increase of 2,3% was recorded in August 2012, following a month-on-month increase of 0,3% July 2012.

The actual estimated electricity production increased by 1,5% year-on-year in August 2012.

#### Electricity delivered by Eskom to the provinces

The total volume of electricity delivered by Eskom to the provinces decreased by 1,5% in August 2012 compared with August 2011. Decreases were reported in six of the nine provinces, with the largest volume decrease recorded for Gauteng (-187 Gigawatt-hours), followed by KwaZulu-Natal (-138 Gigawatt-hours). North West recorded the largest increase (157 Gigawatt-hours) over this period.

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended August 2012 and the previous three months

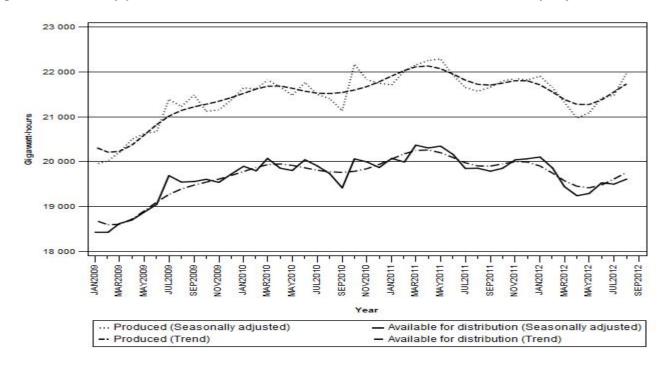
Gigawatt-hours	Seasonally adjusted quantity March to May 2012	Seasonally adjusted quantity June to August 2012	% change between March to May 2012 and June to August 2012	Quantity difference between March to May 2012 and June to August 2012
Electricity produced	63 376	64 864	2,3	1 488
Electricity available for distribution in South Africa	57 971	58 632	1,1	661

Table C – Comparison of actual estimates between the three months ended August 2012 and the three months ended August 2011

Gigawatt-hours	Actual volume June to August 2011	Actual volume June to August 2012	% change between June to August 2011 and June to August 2012	Quantity difference between June to August 2011 and June to August 2012
Electricity produced	68 174	67 772	-0,6	-402
Purchased outside South Africa (import) 1/	3 096	2 412	-22,1	-684
Consumed in power stations and auxiliary systems	4 857	4 843	-0,3	-14
Sold outside South Africa (export) 2/	3 719	3 980	7,0	261
Electricity available for distribution in South Africa	62 693	61 362	-2,1	-1 331

<sup>1/</sup> Physical energy flowing into 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

<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: 2007–2012

Manth		Gigawatt-hours Gigawatt-hours								
Month	2007	2008	2009	2010	2011	2012				
January	19 561	19 256	17 919	19 396	19 616	19 676				
February	18 301	18 668	16 757	18 181	18 455	18 783				
March	20 160	19 603	18 694	20 186	20 518	19 623				
April	18 982	19 127	17 934	19 102	19 539	18 466				
May	20 901	20 365	19 548	20 435	20 938	19 869				
June	21 020	20 515	19 819	20 800	20 914	20 274				
July	21 780	21 610	21 151	21 307	21 162	20 743				
August	21 353	20 736	20 398	20 540	20 617	1/ 20 345				
September	19 732	19 725	19 382	19 256	19 619					
October	20 435	20 138	19 899	20 371	20 198					
November	19 785	18 640	19 248	19 702	19 763					
December	19 160	17 541	18 850	18 996	19 189					
Year	241 170	235 924	229 599	238 272	240 528					

<sup>1/</sup> Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2007–2012

Manth		Percentage change 2/								
Month	2007	2008	2009	2010	2011	2012				
January	5,1	-1,6	-6,9	8,2	1,1	0,3				
February	5,2	2,0	-10,2	8,5	1,5	1,8				
March	6,2	-2,8	-4,6	8,0	1,6	-4,4				
April	4,7	0,8	-6,2	6,5	2,3	-5,5				
May	2,9	-2,6	-4,0	4,5	2,5	-5,1				
June	4,2	-2,4	-3,4	4,9	0,5	-3,1				
July	5,6	-0,8	-2,1	0,7	-0,7	-2,0				
August	5,2	-2,9	-1,6	0,7	0,4	-1,3				
September	3,9	-0,0	-1,7	-0,7	1,9					
October	3,9	-1,5	-1,2	2,4	-0,8					
November	2,8	-5,8	3,3	2,4	0,3					
December	1,3	-8,4	7,5	0,8	1,0					
Year	4,3	-2,2	-2,7	3,8	0,9					

<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: 2007–2012

		Gigawatt-hours										
Month	2007	2008	2009	2010	2011	2012	% change between current and previous month					
January	20 043	19 765	18 423	19 895	20 071	20 102	0,2					
February	19 942	19 952	18 423	19 793	19 989	19 856	-1,2					
March	20 136	19 558	18 619	20 071	20 366	19 443	-2,1					
April	19 796	19 909	18 697	19 853	20 303	19 239	-1,0					
May	20 151	19 632	18 872	19 801	20 345	19 289	0,3					
June	20 263	19 754	19 046	20 041	20 158	19 527	1,2					
July	20 322	20 125	19 687	19 906	19 847	19 497	-0,2					
August	20 463	19 852	19 543	19 732	19 851	19 608	0,6					
September	19 938	19 918	19 555	19 414	19 785							
October	20 136	19 857	19 604	20 060	19 852							
November	20 080	18 938	19 536	19 991	20 038							
December	19 990	18 387	19 718	19 868	20 063							

Table 4 – Indices of the physical volume of electricity production: 2007–2012

Month		Base: 2005=100								
WIOHUI	2007	2008	2009	2010	2011	2012				
January	103,9	105,3	95,0	103,4	104,0	105,2				
February	97,2	99,7	88,5	96,5	98,9	99,4				
March	107,8	105,6	99,3	107,4	109,2	105,2				
April	100,9	102,0	96,1	102,0	104,8	98,5				
May	111,9	109,6	104,5	108,5	112,2	106,3				
June	112,5	108,8	104,8	110,1	110,8	108,3				
July	116,6	115,1	112,8	113,0	113,2	112,0				
August	114,1	110,3	108,8	109,4	110,0	1/ 111,7				
September	105,5	104,8	104,4	102,8	105,3					
October	109,1	109,4	105,6	110,8	109,2					
November	106,9	101,4	102,6	105,9	106,1					
December	104,6	93,6	100,3	102,1	102,4					
Year	107,6	105,5	101,9	106,0	107,2					

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2007–2012

8.8 a 41b		Percentage change 2/								
Month	2007	2008	2009	2010	2011	2012				
January	4,1	1,3	-9,8	8,8	0,6	1,2				
February	3,4	2,6	-11,2	9,0	2,5	0,5				
March	4,4	-2,0	-6,0	8,2	1,7	-3,7				
April	3,0	1,1	-5,8	6,1	2,7	-6,0				
May	3,5	-2,1	-4,7	3,8	3,4	-5,3				
June	4,8	-3,3	-3,7	5,1	0,6	-2,3				
July	5,2	-1,3	-2,0	0,2	0,2	-1,1				
August	4,6	-3,3	-1,4	0,6	0,5	1,5				
September	3,6	-0,7	-0,4	-1,5	2,4					
October	1,8	0,3	-3,5	4,9	-1,4					
November	3,5	-5,1	1,2	3,2	0,2					
December	3,7	-10,5	7,2	1,8	0,3					
Year	3,8	-2,0	-3,4	4,0	1,1					

<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: 2007-2012

		Base: 2005=100									
Month	2007	2008	2009	2010	2011	2012	% change between current and previous month				
January	106,5	108,0	97,7	106,0	106,3	107,3	0,4				
February	106,6	107,2	98,0	105,9	107,9	106,0	-1,2				
March	107,6	105,4	99,0	106,9	108,5	104,4	-1,5				
April	105,4	106,3	100,4	106,1	109,0	102,7	-1,6				
May	108,2	105,9	101,0	105,2	109,2	103,3	0,6				
June	108,9	105,3	101,2	106,6	107,4	104,9	1,5				
July	108,5	106,9	104,8	105,3	106,1	105,2	0,3				
August	109,0	105,2	104,0	104,8	105,6	107,6	2,3				
September	106,4	105,7	105,2	103,5	106,1						
October	107,0	107,4	103,5	108,6	106,8						
November	108,1	102,6	103,6	106,9	107,0						
December	108,7	97,8	104,7	106,5	106,9						

Table 7 - Total volume of electricity imported: 2007-2012 1/

Month		Gigawatt-hours									
WOULI	2007	2008	2009	2010	2011	2012					
January	1 088	638	1 102	1 122	1 088	1 085					
February	942	885	999	995	730	1 063					
March	973	802	1 064	1 040	1 112	945					
April	1 055	844	906	931	912	1 068					
May	900	761	937	1 074	907	1 066					
June	880	1 002	1 088	1 019	1 009	1 044					
July	984	1 089	1 040	1 117	979	903					
August	1 045	1 076	1 072	1 109	1 108	2/ 465					
September	1 026	1 044	920	1 068	974						
October	1 040	645	1 115	770	911						
November	796	711	940	1 018	1 073						
December	619	1 075	1 112	930	1 087						
Year	11 348	10 572	12 295	12 193	11 890						

<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: 2007–2012 1/

Month	Gigawatt-hours									
Month	2007	2008	2009	2010	2011	2012				
January	1 134	1 280	1 096	1 217	1 133	1 247				
February	1 060	1 101	979	1 128	1 069	1 212 1 242				
March	1 231	1 136	1 100	1 252	1 279					
April	1 132	998	1 086	1 170 1 177 1 132 1 206	1 190 1 241 1 174 1 247	1 174 1 322 1 335 1 350				
May	1 203	1 120 1 162 1 249	1 109 1 175 1 223							
June	1 256									
July	1 301									
August	1 252	1 220	1 235	1 275	1 298	2/ 1 295				
September	1 186	1 203	1 285	1 248	1 288					
October	1 252	1 258 1 288		1 338 1 37						
November	1 256	1 252	1 213	1 316	1 381					
December	1 233	1 189	1 263	1 209	1 286					
Year	14 496	14 168	14 052	14 668	14 964					

<sup>1/</sup> 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						
		August 2011	July 2012	August 2012 1/	% change between August 2011 and August 2012	Difference between August 2011 and August 2012		
Total - All producers	Electricity produced	22 443	22 863	22 802	1,5	359		
	Purchased outside South Africa (import) 2/	1 108	903	465	-58,0	-643		
	Consumed in power stations and auxiliary systems	1 635	1 673	1 628	-0,4	-7		
	Sold outside South Africa (export) 3/	1 298	1 350	1 295	-0,2	-3		
	Electricity available for distribution in South Africa	20 617	20 743	20 345	-1,3	-272		
ESKOM	Electricity produced	21 496	21 970	21 886	1,8	390		
	Purchased outside South Africa (import) 2/	1 108	903	465	-58,0	-643		
	Consumed in power stations and auxiliary systems	1 567	1 590	1 557	-0,6	-10		
	Sold outside South Africa (export) 3/	1 298	1 350	1 295	-0,2	-3		
	Electricity available for distribution in South Africa	19 739	19 933	19 499	-1,2	-240		

<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 August 2011	January to August 2012	% change between January to August 2011 and January to August 2012	Difference between January to August 2011 and January to August 2012		
Total - All producers	Electricity produced	176 177	172 810	-1,9	-3 367		
	Purchased outside South Africa (import) 2/	7 845	7 639	-2,6	-206		
	Consumed in power stations and auxiliary systems	12 631	12 492	-1,1	-139		
	Sold outside South Africa (export) 3/	9 631	10 177	5,7	546		
	Electricity available for distribution in South Africa	161 759	157 779	-2,5	-3 980		
ESKOM	Electricity produced	169 019	165 769	-1,9	-3 250		
	Purchased outside South Africa (import) 2/	7 845	7 639	-2,6	-206		
	Consumed in power stations and auxiliary systems	12 093	11 900	-1,6	-193		
	Sold outside South Africa (export) 3/	9 631	10 177	5,7	546		
	Electricity available for distribution in South Africa	155 141	151 333	-2,5	-3 808		

<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 2011 and 2012

		Gigawatt-hours 1/									
Period		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
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	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
	Year to date	15 696	6 407	3 251	6 094	28 100	17 177	42 040	23 556	7 965	150 286
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 2/	1 993	838	420	776	3 436	2 186	5 540	2 767	937	18 893
	Year to date	15 531	6 598	3 353	5 770	26 744	17 270	40 686	22 778	7 817	146 547

<sup>1/</sup> 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.

- This statistical release reflects indices of the physical volume of electricity production on the basis of 2005=100. In accordance with international practice, the indices have to be rebased every five years to a new base year.
- In order to improve timeliness of the publication, some information for the current month may have been estimated due to late submission by respondents. These estimates will be revised in the next statistical release(s) as soon as actual information is available.

### Purpose of the 4 survey

The results of the monthly electricity generated and available for distribution survey are used to compile estimates of the gross domestic product (GDP) and its components, which are used in monitoring the state of the economy and formulation of economic policy.

### Scope of the 5 survey

This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of electricity. 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 August 2012 was 99%.

#### Statistical unit 8

The basic statistical unit for the collection of information is the electricity undertaking or establishment. The electricity undertaking or establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5).

#### Survey methodology and design

9

All statistical units are stratified by type of economic activity according to the *Standard Industrial Classification of all Economic Activities* (SIC) and measure of size, where measure of size is the volume of electricity generated by the electricity undertaking or establishment. All large undertakings or establishments (size category one cases) are completely enumerated. A sample is drawn from medium and small size undertakings and establishments by systematically selecting undertakings or establishments within each size category. An electricity undertaking or establishment with a total generating capacity of less than 500 kilowatt is excluded from the sample.

The survey is conducted by mail, 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.

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

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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 <a href="http://www.statssa.gov.za/publications/P4141/electricity\_seasonal\_adjustment\_note\_2011.pdf">http://www.statssa.gov.za/publications/P4141/electricity\_seasonal\_adjustment\_note\_2011.pdf</a>

#### Trend cycle

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; and
- SA Statistics.

### Rounding-off 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 2005. The production in the base period is set at 100.

**Industry**An industry consists of a group of undertakings or establishments engaged in the

same or similar kinds of economic activity. Industries are defined in the 1993 System of National Accounts (1993 SNA) in the same way as in the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No.

09-90-02.

**Unit of electricity**One gigawatt-hour of electricity is equal to one million kilowatt-hours. A kilowatt-

hour is the basic unit of electrical energy equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour. One kilowatt-hour equals

one thousand watt-hours.

Symbols and abbreviations

GDP Gross domestic product

ISIC International Standard Industrial Classification

SIC Standard Industrial Classification of all Economic Activities

Stats SA Statistics South Africa
\* Revised figures

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Statistics South Africa 12 P4141

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