

Statistical release

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Electricity generated and available for distribution (Preliminary)

December 2009

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Contents

Page

SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION

(DECEMBER 2009)2

Key figures2

Table A – Selected key figures regarding electricity generated and available for distribution for December 20092

Key findings2

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the current quarter and the previous quarter3

Table C – Comparison of actual estimates between the current quarter and the corresponding quarter of the previous year3

Figure 1 – Electricity produced and available for distribution in South Africa from 2006 to 20094

Table 1 – Total volume of electricity available for distribution in South Africa: 2004 to 20095

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2004 to 20095

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2004 to 20096

Table 4 – Indices of the physical volume of electricity production: 2004 to 20097

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2004 to 20097

Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2004 to 20098

Table 7 – Total volume of electricity imported: 2004 to 20099

Table 8 – Total volume of electricity exported: 2004 to 20099

Table 9a – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (monthly figures)10

Table 9b – Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (cumulative figures)10

Table 10 – Total volume of electricity distributed by Eskom to provinces for 2008 and 200911

Explanatory Notes12

Glossary14

General information15

**SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION
(DECEMBER 2009)**

Key figures

Table A – Selected key figures regarding electricity generated and available for distribution for December 2009

Actual estimates	December 2009 1/	% change between December 2008 and December 2009	% change between October to December 2008 and October to December 2009	% change between January to December 2008 and January to December 2009
Electricity available for distribution (Gigawatt-hours)	18 850	7,5	3,0	-2,7
Index of the physical volume of electricity production (2005=100)	100,3	7,2	1,3	-3,4

1/ Preliminary.

Seasonally adjusted estimates	December 2009	% change between November and December 2009	% change between July to September 2009 and October to December 2009
Electricity available for distribution (Gigawatt-hours)	19 654	0,2	1,0
Index of the physical volume of electricity production (2005=100)	104,4	0,6	-0,1

Key findings

Consumption of electricity

The actual estimated volume of electricity consumed during the fourth quarter of 2009 increased by 3,0% (1 680 Gigawatt-hours) compared with the corresponding quarter of 2008 (see Tables A and C). Electricity consumption, after seasonal adjustment, during the fourth quarter of 2009 increased by 1,0% compared with the third quarter of 2009 (see Tables A and B).

However, the actual estimated consumption of electricity for the year 2009 decreased by 2,7% (-6 322 Gigawatt-hours) compared with the year 2008, following a decrease of 2,2% (-5 246 Gigawatt-hours) between 2007 and 2008 (see Tables A, 2 and 9b).

Production of electricity

The actual estimated production of electricity during the fourth quarter of 2009 increased by 1,3% (834 Gigawatt-hours) compared with the fourth quarter of 2008 (see Table C), whilst the December 2009 estimates showed a year-on-year increase of 7,2% (1 369 Gigawatt-hours) (see Tables A, 5 and 9a). However, the estimated production of electricity, after seasonal adjustment, for the fourth quarter of 2009 decreased marginally compared with the third quarter of 2009 (see Table B).

The actual estimated production of electricity for the year 2009 decreased by 3,4% compared with the year 2008 (see Tables A, 5 and 9b).

Distribution of electricity by Eskom to the provinces

Electricity distributed to the provinces for 2009 was 2,3% lower (-4 992 Gigawatt-hours) compared with 2008. Lower figures were reported for eight provinces during 2009 ranging from -6,2% for Mpumalanga to -0,8% for Gauteng. KwaZulu-Natal was the only province with an increase (of 2,0%) in 2009 (see Table 10).

The proportion of electricity distributed to the provinces remained fairly stable between the latest two years. There was 0,9 of a percentage point increase (18,8% to 19,7%) distributed to KwaZulu-Natal and 0,4 of a percentage point increase to Gauteng (27,6% to 28,0%). These proportional increases were counteracted by proportionate decreases in consumption of 0,6 of a percentage point (15,3% to 14,7%) in Mpumalanga and 0,2 of a percentage point each in North West and Eastern Cape.

International trade in electricity

The volume of electricity purchased from outside South African borders increased from 10 572 Gigawatt-hours in 2008 to 12 295 Gigawatt-hours in 2009, representing an increase of 16,3% (1 723 Gigawatt-hours). The volume of electricity sold to neighbouring countries during 2009 decreased by 0,8% (-116 Gigawatt-hours) compared with 2008 (see Table 9b). This resulted in a net outflow of electricity of 1 757 Gigawatt-hours in 2009, as compared with a net outflow of 3 596 Gigawatt-hours in 2008 (-51,1%).

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

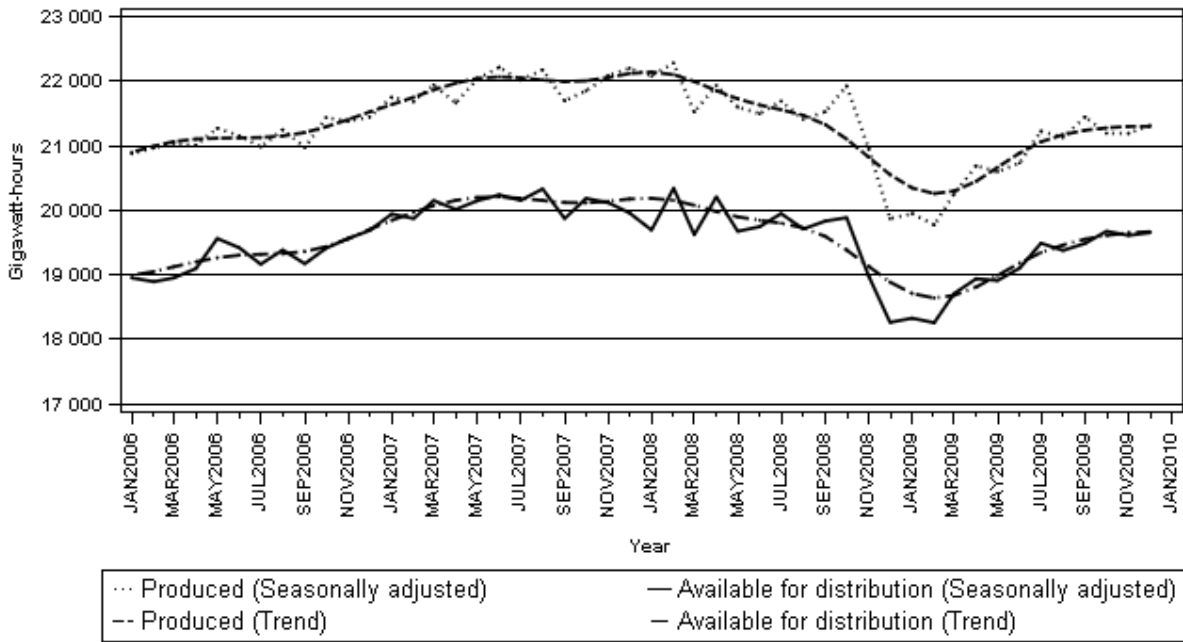
Gigawatt-hours	Seasonally adjusted quantity July to September 2009	Seasonally adjusted quantity October to December 2009	% change between July to September 2009 and October to December 2009	Quantity difference between July to September 2009 and October to December 2009
Electricity produced	63 799	63 698	-0,2	-101
Electricity available for distribution in South Africa	58 358	58 942	1,0	584

Table C – Comparison of actual estimates between the current quarter and the corresponding quarter of the previous year

Gigawatt-hours	Actual quantity October to December 2008	Actual quantity October to December 2009	% change between October to December 2008 and October to December 2009	Quantity difference between October to December 2008 and October to December 2009
Electricity produced	62 133	62 967	1,3	834
Purchased outside South Africa (import)	2 431	3 167	30,3	736
Consumed in power stations and auxiliary systems	4 545	4 371	-3,8	-174
Sold outside South Africa (export)	3 699	3 764	1,8	65
Electricity available for distribution in South Africa	56 319	57 999	3,0	1 680

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa from January 2006 to December 2009.

Figure 1 – Electricity produced and available for distribution in South Africa from 2006 to 2009



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Detailed results: Tables

Table 1 – Total volume of electricity available for distribution in South Africa: 2004 – 2009

Month	Gigawatt-hours					
	2004	2005	2006	2007	2008	2009
January	17 850	18 149	18 603	19 561	19 256	17 919
February	17 277	17 169	17 396	18 301	18 668	16 757
March	18 476	18 487	18 982	20 160	19 603	18 694
April	17 524	18 133	18 122	18 982	19 127	17 934
May	18 909	19 224	20 312	20 901	20 365	19 548
June	19 337	18 983	20 166	21 020	20 515	19 819
July	20 156	19 657	20 632	21 780	21 610	21 152
August	19 265	19 191	20 307	21 353	20 736	20 398
September	18 362	18 384	18 987	19 732	19 725	19 382
October	18 714	19 127	19 663	20 435	20 138	19 899
November	18 314	18 523	19 244	19 785	18 640	19 250
December	17 754	18 230	18 909	19 160	17 541	1/ 18 850
Year	221 938	223 257	231 323	241 170	235 924	229 602

1/ Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2004 – 2009

Month	Percentage					
	2004	2005	2006	2007	2008	2009
January	4,4	1,7	2,5	5,1	-1,6	-6,9
February	6,9	-0,6	1,3	5,2	2,0	-10,2
March	4,7	0,1	2,7	6,2	-2,8	-4,6
April	3,7	3,5	-0,1	4,7	0,8	-6,2
May	4,1	1,7	5,7	2,9	-2,6	-4,0
June	5,5	-1,8	6,2	4,2	-2,4	-3,4
July	5,1	-2,5	5,0	5,6	-0,8	-2,1
August	2,9	-0,4	5,8	5,2	-2,9	-1,6
September	4,8	0,1	3,3	3,9	0,0	-1,7
October	1,3	2,2	2,8	3,9	-1,5	-1,2
November	2,9	1,1	3,9	2,8	-5,8	3,3
December	1,7	2,7	3,7	1,3	-8,4	7,5
Year	4,0	0,6	3,6	4,3	-2,2	-2,7

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

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2004 – 2009

Month	Gigawatt-hours						% change between current and previous month
	2004	2005	2006	2007	2008	2009	
January	18 197	18 493	18 954	19 943	19 694	18 330	0,4
February	18 751	18 640	18 895	19 873	20 343	18 260	-0,4
March	18 407	18 458	18 954	20 151	19 622	18 711	2,5
April	18 367	19 070	19 098	20 014	20 208	18 941	1,2
May	18 162	18 489	19 564	20 148	19 675	18 914	-0,1
June	18 570	18 257	19 420	20 239	19 747	19 104	1,0
July	18 734	18 280	19 166	20 154	19 950	19 491	2,0
August	18 462	18 353	19 386	20 331	19 711	19 379	-0,6
September	18 600	18 602	19 173	19 872	19 833	19 488	0,6
October	18 445	18 872	19 415	20 185	19 887	19 676	1,0
November	18 614	18 815	19 565	20 119	18 982	19 612	-0,3
December	18 549	18 994	19 688	19 960	18 265	19 654	0,2

Table 4 – Indices of the physical volume of electricity production: 2004 – 2009

Month	Base : 2005=100					
	2004	2005	2006	2007	2008	2009
January	95,5	97,6	99,8	103,9	105,3	95,0
February	92,2	91,7	94,0	97,2	99,7	88,5
March	98,7	100,2	103,3	107,8	105,6	99,3
April	94,7	98,1	98,0	100,9	102,0	96,1
May	102,4	102,9	108,1	112,0	109,6	104,5
June	105,0	101,6	107,3	112,5	108,8	104,8
July	109,5	105,5	110,8	116,6	115,1	112,8
August	104,3	103,0	109,1	114,1	110,3	108,8
September	99,5	99,1	101,8	105,5	104,8	104,4
October	102,1	102,5	107,2	109,1	109,4	105,6
November	98,5	99,4	103,3	106,9	101,4	102,6
December	96,0	98,2	100,9	104,6	93,6	1/ 100,3
Year	99,9	100,0	103,6	107,6	105,5	101,9

1/ Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2004 – 2009

Month	Percentage change					
	2004	2005	2006	2007	2008	2009
January	6,6	2,2	2,3	4,1	1,3	-9,8
February	8,9	-0,5	2,5	3,4	2,6	-11,2
March	6,2	1,5	3,1	4,4	-2,0	-6,0
April	5,1	3,6	-0,1	3,0	1,1	-5,8
May	5,3	0,5	5,1	3,6	-2,1	-4,7
June	6,6	-3,2	5,6	4,8	-3,3	-3,7
July	6,8	-3,7	5,0	5,2	-1,3	-2,0
August	1,9	-1,2	5,9	4,6	-3,3	-1,4
September	2,6	-0,4	2,7	3,6	-0,7	-0,4
October	-0,1	0,4	4,6	1,8	0,3	-3,5
November	2,2	0,9	3,9	3,5	-5,1	1,2
December	2,1	2,3	2,7	3,7	-10,5	7,2
Year	4,4	0,1	3,7	3,8	-2,0	-3,4

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

Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2004 – 2009

Month	Base : 2005=100						% change between current and previous month
	2004	2005	2006	2007	2008	2009	
January	98,0	100,1	102,2	106,5	108,1	97,7	0,4
February	101,1	100,4	102,7	106,2	109,1	96,8	-0,9
March	98,8	100,1	103,0	107,5	105,4	99,2	2,5
April	99,1	103,0	102,9	106,1	107,4	101,3	2,1
May	98,5	99,1	104,2	107,9	105,8	100,9	-0,4
June	100,9	97,9	103,6	108,8	105,3	101,5	0,6
July	101,4	97,8	102,8	107,8	106,2	103,9	2,4
August	99,6	98,3	104,1	108,6	104,8	103,5	-0,4
September	100,3	100,1	102,7	106,2	105,4	105,0	1,4
October	99,5	100,1	105,0	107,0	107,4	103,8	-1,1
November	100,1	100,9	104,7	108,2	102,6	103,8	0,0
December	100,4	102,3	105,0	108,7	97,3	104,4	0,6

Table 7 – Total volume of electricity imported: 2004 – 2009

Month	Gigawatt-hours					
	2004	2005	2006	2007	2008	2009
January	828	729	872	1 088	638	1 102
February	811	714	646	942	885	999
March	863	533	581	973	802	1 064
April	641	598	587	1 055	844	906
May	547	849	879	900	761	937
June	560	813	881	880	1 002	1 088
July	607	856	926	984	1 089	1 040
August	618	883	930	1 045	1 076	1 072
September	590	686	971	1 026	1 044	920
October	536	836	682	1 040	645	1 115
November	746	865	862	796	711	940
December	679	837	965	619	1 075	1/ 1 112
Year	8 026	9 199	9 782	11 348	10 572	12 295

1/ Preliminary.

Table 8 – Total volume of electricity exported: 2004 – 2009

Month	Gigawatt-hours					
	2004	2005	2006	2007	2008	2009
January	1 037	1 030	1 056	1 134	1 280	1 096
February	977	901	1 050	1 060	1 101	979
March	1 027	968	1 129	1 231	1 136	1 100
April	951	991	1 017	1 132	998	1 086
May	944	1 083	1 046	1 203	1 120	1 109
June	1 057	1 096	1 102	1 256	1 162	1 175
July	1 140	1 102	1 239	1 301	1 249	1 223
August	1 049	1 144	1 262	1 252	1 220	1 235
September	1 048	1 134	1 239	1 186	1 203	1 285
October	1 112	1 161	1 311	1 252	1 258	1 288
November	1 082	1 119	1 186	1 256	1 252	1 213
December	1 029	1 155	1 129	1 233	1 189	1/ 1 263
Year	12 453	12 884	13 766	14 496	14 168	14 052

1/ 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 2008	November 2009	December 2009 1/	% change between December 2008 and December 2009	Difference between December 2008 and December 2009
Total - All producers	Electricity produced	19 102	20 938	20 471	7,2	1 369
	Purchased outside South Africa (import)	1 075	940	1 112	3,4	37
	Consumed in power stations and auxiliary systems	1 448	1 416	1 469	1,5	21
	Sold outside South Africa (export)	1 189	1 213	1 263	6,2	74
	Electricity available for distribution in South Africa	17 541	19 250	18 850	7,5	1 309
ESKOM	Electricity produced	18 345	20 333	19 875	8,3	1 530
	Purchased outside South Africa (import)	1 075	940	1 112	3,4	37
	Consumed in power stations and auxiliary systems	1 382	1 357	1 424	3,0	42
	Sold outside South Africa (export)	1 189	1 213	1 263	6,2	74
	Electricity available for distribution in South Africa	16 849	18 704	18 300	8,6	1 451

1/ 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 2008	January to December 2009 1/	% change between January to December 2008 and January to December 2009	Difference between January to December 2008 and January to December 2009
Total - All producers	Electricity produced	258 291	249 563	-3,4	-8 728
	Purchased outside South Africa (import)	10 572	12 295	16,3	1 723
	Consumed in power stations and auxiliary systems	18 767	18 208	-3,0	-559
	Sold outside South Africa (export)	14 168	14 052	-0,8	-116
	Electricity available for distribution in South Africa	235 924	229 602	-2,7	-6 322
ESKOM	Electricity produced	247 773	241 093	-2,7	-6 680
	Purchased outside South Africa (import)	10 572	12 295	16,3	1 723
	Consumed in power stations and auxiliary systems	17 741	17 383	-2,0	-358
	Sold outside South Africa (export)	14 168	14 052	-0,8	-116
	Electricity available for distribution in South Africa	226 433	221 955	-2,0	-4 478

1/ Preliminary.

Table 10 – Total volume of electricity distributed by Eskom to provinces for 2008 and 2009 1/

Period	Gigawatt-hours										
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Limpopo	Total South Africa	
2008	January	1 928	749	396	749	3 552	2 207	4 861	2 661	874	17 977
	February	1 839	758	396	700	3 390	2 102	4 640	2 600	898	17 323
	March	1 937	779	393	749	3 363	2 217	4 945	2 801	934	18 118
	April	1 893	753	363	717	3 322	2 089	4 784	2 796	934	17 651
	May	1 985	760	373	796	3 417	2 141	5 414	2 990	1 015	18 891
	June	1 987	834	374	800	3 333	2 142	5 523	2 966	992	18 951
	July	2 065	864	410	839	3 571	2 234	5 919	3 078	1 044	20 024
	August	1 999	845	406	757	3 575	2 180	5 438	2 937	1 039	19 176
	September	1 975	829	419	785	3 460	2 093	5 009	2 806	1 005	18 381
	October	1 952	838	442	803	3 575	2 192	4 983	2 985	1 010	18 780
	November	1 813	750	405	754	3 425	2 052	4 665	2 594	828	17 286
	December	1 872	673	391	737	3 258	1 845	4 292	2 399	848	16 315
	Year	23 245	9 432	4 768	9 186	41 241	25 494	60 473	33 613	11 421	218 873
2009	January	1 886	733	408	748	3 368	1 833	4 502	2 265	849	16 592
	February	1 779	625	367	661	3 196	1 721	4 272	2 154	752	15 527
	March	1 995	691	404	739	3 553	1 936	4 716	2 442	875	17 351
	April	1 812	713	350	673	3 410	1 852	4 499	2 476	860	16 645
	May	1 852	799	361	735	3 583	2 009	5 270	2 736	935	18 280
	June	1 891	744	368	763	3 529	2 033	5 552	2 711	924	18 515
	July	1 942	789	398	825	3 689	2 188	6 059	2 841	975	19 706
	August	1 982	761	370	776	3 620	2 095	5 600	2 810	993	19 007
	September	1 889	769	383	658	3 515	2 055	4 923	2 762	1 045	17 999
	October	1 878	752	398	704	3 629	2 276	5 005	2 885	1 000	18 527
	November	1 837	761	402	739	3 490	2 221	4 916	2 717	942	18 025
	December 2/	1 840	736	420	719	3 499	2 170	4 651	2 725	947	17 707
	Year	22 583	8 873	4 629	8 740	42 081	24 389	59 965	31 524	11 097	213 881

1/ Wholesale energy 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, including 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.
Response rate	7	The response rate for the survey on electricity generated and available for distribution for December 2009 was 99%.
Statistical unit	8	The basic statistical unit for the collection of information is the electricity undertaking or establishment. The electricity undertaking or establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5).
Survey methodology and design	9	All statistical units are stratified by type of economic activity according to the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> and measure of size, where measure of size is the volume of electricity generated by the electricity undertaking or establishment. All large undertakings or establishments (size category one cases) are completely enumerated. A sample is drawn from medium and small size undertakings and establishments by systematically selecting undertakings or establishments within each size category. An electricity undertaking or establishment with a total generating capacity of less than 500 kilowatt is excluded from the sample.
	10	The survey is conducted by mail, email and telephone each month collecting information from a sample of 22 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, which are weighted according to the original sample, designed in order 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 benchmarks 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-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognized. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.
Trend cycle	15	The trend is the long-term pattern or movement of a time series. The X-11 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>
Unpublished statistics	17	In some cases Stats SA can also make available statistics, which are not published. The statistics can be made available as computer printouts or on CD. Generally a charge is made for providing unpublished statistics.
Rounding-off figures	18	The figures in the tables have, where necessary, 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.
Pre-release policy	19	Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za .

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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