

# Statistical release

## P4141

# Electricity generated and available for distribution (Preliminary)

**June 2011**

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## Contents

<b>Results for June 2011 .....</b>	<b>2</b>
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 second quarter of 2011 and the previous quarter.....	3
Table C – Comparison of actual estimates between the second quarter of 2011 and the second quarter of 2010.....	3
Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend.....	3
<b>Tables.....</b>	<b>4</b>
Table 1 – Total volume of electricity available for distribution in South Africa: 2006 – 2011 .....	4
Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2006 – 2011 .....	4
Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2006 – 2011 .....	4
Table 4 – Indices of the physical volume of electricity production: 2006 – 2011.....	5
Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2006 – 2011 .....	5
Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2006 – 2011 .....	5
Table 7 – Total volume of electricity imported: 2006 – 2011.....	6
Table 8 – Total volume of electricity exported: 2006 – 2011.....	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 2010 and 2011 .....	8
<b>Explanatory Notes.....</b>	<b>9</b>
<b>Glossary.....</b>	<b>11</b>
<b>General information .....</b>	<b>12</b>

## Results for June 2011

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

Actual estimates	June 2011 1/	% change between June 2010 and June 2011	% change between April to June 2010 and April to June 2011	% change between January to June 2010 and January to June 2011
Electricity available for distribution (Gigawatt-hours)	20 924	0,6	1,8	1,6
Index of the physical volume of electricity production (2005=100)	110,8	0,6	2,2	1,9

1/ Preliminary.

Seasonally adjusted estimates	June 2011	% change between May and June 2011	% change between January to March 2011 and April to June 2011
Electricity available for distribution (Gigawatt-hours)	20 166	-0,9	0,0
Index of the physical volume of electricity production (2005=100)	107,7	-1,1	-0,1

### Consumption of electricity

The actual volume of electricity consumed increased by 0,6% (124 Gigawatt-hours) year-on-year in June 2011 (see Tables A, 2 and 9a). Electricity consumption for the second quarter of 2011 increased by 1,8% (1 106 Gigawatt-hours) compared with the second quarter of 2010 (see Tables A and C). Seasonally adjusted electricity consumption for the second quarter of 2011 compared with the preceding quarter remained stable (see Tables A and B).

### Production of electricity

The actual estimated electricity production rose by 0,6% year-on-year in June 2011 (see Tables A, 5 and 9a). The estimated electricity production for the second quarter of 2011 increased by 2,2% compared with the second quarter of 2010 (see Table A). However, seasonally adjusted electricity production in the second quarter of 2011 decreased marginally by 0,1% compared with the first quarter of 2011 (see Tables A and B).

### Electricity delivered by Eskom to the provinces

Electricity delivered by Eskom to the provinces increased by 0,3% (371 Gigawatt-hours) in the first six months of 2011 compared with the first six months of 2010. The 0,3% increase was driven by increases reported in five of the nine provinces, of which the biggest volume increase was reported in Mpumalanga (3,1% or 541 Gigawatt-hours).

The biggest volume decrease was reported in Gauteng (-1,3% or -405 Gigawatt-hours), followed by KwaZulu-Natal (-0,5% or -104 Gigawatt-hours).

### International trade in electricity

The volume of electricity purchased from outside South African borders in the first six months of 2011 decreased by 6,7% (-417 Gigawatt-hours) compared with the same period in 2010. The volume of electricity sold to neighbouring countries decreased by 0,6% (-42 Gigawatt-hours) during the above-mentioned period (see Table 9b).

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

Gigawatt-hours	Seasonally adjusted quantity January to March 2011	Seasonally adjusted quantity April to June 2011	% change between January to March 2011 and April to June 2011	Quantity difference between January to March 2011 and April to June 2011
Electricity produced	66 558	66 507	-0,1	-51
Electricity available for distribution in South Africa	60 976	60 966	0,0	-10

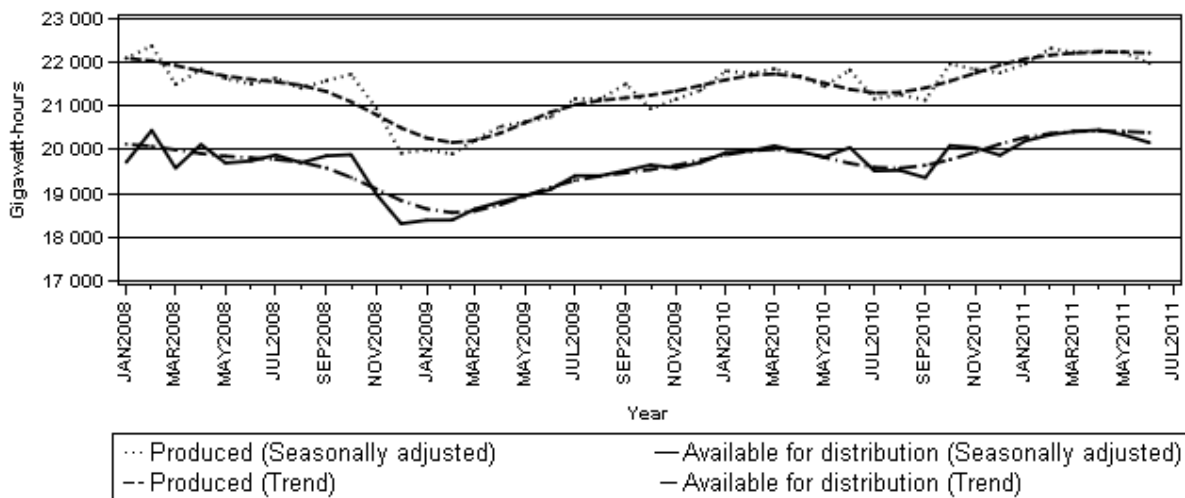
**Table C – Comparison of actual estimates between the second quarter of 2011 and the second quarter of 2010**

Gigawatt-hours	Actual volume April to June 2010	Actual volume April to June 2011	% change between April to June 2010 and April to June 2011	Quantity difference between April to June 2010 and April to June 2011
Electricity produced	65 420	66 908	2,2	1 488
Purchased outside South Africa (import) 1/	3 024	2 834	-6,3	-190
Consumed in power stations and auxiliary systems	4 625	4 748	2,7	123
Sold outside South Africa (export) 2/	3 479	3 553	2,1	74
Electricity available for distribution in South Africa	60 337	61 443	1,8	1 106

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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**Tables**

**Table 1 – Total volume of electricity available for distribution in South Africa: 2006 – 2011**

Month	Gigawatt-hours					
	2006	2007	2008	2009	2010	2011
January	18 603	19 561	19 256	17 919	19 396	19 616
February	17 396	18 301	18 668	16 757	18 181	18 455
March	18 982	20 160	19 603	18 694	20 186	20 517
April	18 122	18 982	19 127	17 934	19 102	19 584
May	20 312	20 901	20 365	19 548	20 435	20 935
June	20 166	21 020	20 515	19 819	20 800	1/ 20 924
July	20 632	21 780	21 610	21 151	21 307	
August	20 307	21 353	20 736	20 398	20 540	
September	18 987	19 732	19 725	19 382	19 256	
October	19 663	20 435	20 138	19 899	20 371	
November	19 244	19 785	18 640	19 248	19 702	
December	18 909	19 160	17 541	18 850	18 996	
<b>Year</b>	<b>231 323</b>	<b>241 170</b>	<b>235 924</b>	<b>229 599</b>	<b>238 272</b>	

1/ Preliminary.

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

Month	Percentage change 2/					
	2006	2007	2008	2009	2010	2011
January	2,5	5,1	-1,6	-6,9	8,2	1,1
February	1,3	5,2	2,0	-10,2	8,5	1,5
March	2,7	6,2	-2,8	-4,6	8,0	1,6
April	-0,1	4,7	0,8	-6,2	6,5	2,5
May	5,7	2,9	-2,6	-4,0	4,5	2,4
June	6,2	4,2	-2,4	-3,4	4,9	0,6
July	5,0	5,6	-0,8	-2,1	0,7	
August	5,8	5,2	-2,9	-1,6	0,7	
September	3,3	3,9	-0,0	-1,7	-0,7	
October	2,8	3,9	-1,5	-1,2	2,4	
November	3,9	2,8	-5,8	3,3	2,4	
December	3,7	1,3	-8,4	7,5	0,8	
<b>Year</b>	<b>3,6</b>	<b>4,3</b>	<b>-2,2</b>	<b>-2,7</b>	<b>3,8</b>	

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

**Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2006 – 2011**

Month	Gigawatt-hours						% change between current and previous month
	2006	2007	2008	2009	2010	2011	
January	18 970	19 971	19 717	18 380	19 938	20 207	1,7
February	18 925	19 949	20 448	18 383	19 978	20 349	0,7
March	18 958	20 146	19 579	18 638	20 091	20 420	0,3
April	19 078	19 971	20 122	18 801	19 959	20 456	0,2
May	19 551	20 141	19 697	18 943	19 834	20 344	-0,5
June	19 408	20 218	19 745	19 086	20 052	20 166	-0,9
July	19 147	20 120	19 881	19 404	19 515		
August	19 368	20 324	19 704	19 403	19 529		
September	19 167	19 890	19 862	19 524	19 359		
October	19 452	20 214	19 889	19 650	20 098		
November	19 552	20 116	18 973	19 582	20 050		
December	19 681	19 987	18 301	19 706	19 877		

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

Month	Base : 2005=100					
	2006	2007	2008	2009	2010	2011
January	99,8	103,9	105,3	95,0	103,4	104,0
February	94,0	97,2	99,7	88,5	96,5	98,9
March	103,3	107,8	105,6	99,3	107,4	109,2
April	98,0	100,9	102,0	96,1	102,0	104,8
May	108,1	111,9	109,6	104,5	108,5	112,2
June	107,3	112,5	108,8	104,8	110,1	1/ 110,8
July	110,8	116,6	115,1	112,8	113,0	
August	109,1	114,1	110,3	108,8	109,4	
September	101,8	105,5	104,8	104,4	102,8	
October	107,2	109,1	109,4	105,6	110,8	
November	103,3	106,9	101,4	102,6	105,9	
December	100,9	104,6	93,6	100,3	102,1	
Year	103,6	107,6	105,5	101,9	106,0	

1/ Preliminary.

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

Month	Percentage change 2/					
	2006	2007	2008	2009	2010	2011
January	2,3	4,1	1,3	-9,8	8,8	0,6
February	2,5	3,4	2,6	-11,2	9,0	2,5
March	3,1	4,4	-2,0	-6,0	8,2	1,7
April	-0,1	3,0	1,1	-5,8	6,1	2,7
May	5,1	3,5	-2,1	-4,7	3,8	3,4
June	5,6	4,8	-3,3	-3,7	5,1	0,6
July	5,0	5,2	-1,3	-2,0	0,2	
August	5,9	4,6	-3,3	-1,4	0,6	
September	2,7	3,6	-0,7	-0,4	-1,5	
October	4,6	1,8	0,3	-3,5	4,9	
November	3,9	3,5	-5,1	1,2	3,2	
December	2,7	3,7	-10,5	7,2	1,8	
Year	3,7	3,8	-2,0	-3,4	4,0	

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

**Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2006 – 2011**

Month	Base : 2005=100						% change between current and previous month
	2006	2007	2008	2009	2010	2011	
January	102,3	106,7	108,3	98,0	106,8	107,7	1,0
February	102,9	106,6	109,7	97,5	106,6	109,4	1,6
March	103,1	107,5	105,3	99,0	107,1	108,9	-0,5
April	102,8	105,9	107,0	100,6	106,3	109,1	0,2
May	104,2	108,0	106,0	101,1	105,1	108,9	-0,2
June	103,6	108,8	105,4	101,6	106,9	107,7	-1,1
July	102,7	107,7	106,0	103,7	103,7		
August	104,0	108,6	104,9	103,7	104,2		
September	102,8	106,5	105,7	105,4	103,6		
October	104,6	106,4	106,5	102,6	107,6		
November	104,7	108,2	102,6	103,6	107,0		
December	105,0	108,9	97,6	104,7	106,6		

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

Month	Gigawatt-hours					
	2006	2007	2008	2009	2010	2011
January	872	1 088	638	1 102	1 122	1 088
February	646	942	885	999	995	730
March	581	973	802	1 064	1 040	1 112
April	587	1 055	844	906	931	912
May	879	900	761	937	1 074	909
June	881	880	1 002	1 088	1 019	2/ 1 013
July	926	984	1 089	1 040	1 117	
August	930	1 045	1 076	1 072	1 109	
September	971	1 026	1 044	920	1 068	
October	682	1 040	645	1 115	770	
November	862	796	711	940	1 018	
December	965	619	1 075	1 112	930	
<b>Year</b>	<b>9 782</b>	<b>11 348</b>	<b>10 572</b>	<b>12 295</b>	<b>12 193</b>	

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

2/ Preliminary.

**Table 8 – Total volume of electricity exported: 2006 – 2011 1/**

Month	Gigawatt-hours					
	2006	2007	2008	2009	2010	2011
January	1 056	1 134	1 280	1 096	1 217	1 133
February	1 050	1 060	1 101	979	1 128	1 069
March	1 129	1 231	1 136	1 100	1 252	1 279
April	1 017	1 132	998	1 086	1 170	1 138
May	1 046	1 203	1 120	1 109	1 177	1 248
June	1 102	1 256	1 162	1 175	1 132	2/ 1 167
July	1 239	1 301	1 249	1 223	1 206	
August	1 262	1 252	1 220	1 235	1 275	
September	1 239	1 186	1 203	1 285	1 248	
October	1 311	1 252	1 258	1 288	1 338	
November	1 186	1 256	1 252	1 213	1 316	
December	1 129	1 233	1 189	1 263	1 209	
<b>Year</b>	<b>13 766</b>	<b>14 496</b>	<b>14 168</b>	<b>14 052</b>	<b>14 668</b>	

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				
		June 2010	May 2011	June 2011 1/	% change between June 2010 and June 2011	Difference between June 2010 and June 2011
<b>Total - All producers</b>	<b>Electricity produced</b>	22 464	22 906	22 618	0,6	154
	<b>Purchased outside South Africa (import) 2/</b>	1 019	909	1 013	-0,6	-6
	<b>Consumed in power stations and auxiliary systems</b>	1 549	1 632	1 541	-0,5	-8
	<b>Sold outside South Africa (export) 3/</b>	1 132	1 248	1 167	3,1	35
	<b>Electricity available for distribution in South Africa</b>	<b>20 800</b>	<b>20 935</b>	<b>20 924</b>	<b>0,6</b>	<b>124</b>
<b>ESKOM</b>	<b>Electricity produced</b>	21 792	21 984	21 592	-0,9	-200
	<b>Purchased outside South Africa (import) 2/</b>	1 019	909	1 013	-0,6	-6
	<b>Consumed in power stations and auxiliary systems</b>	1 484	1 569	1 464	-1,3	-20
	<b>Sold outside South Africa (export) 3/</b>	1 132	1 248	1 167	3,1	35
	<b>Electricity available for distribution in South Africa</b>	<b>20 193</b>	<b>20 076</b>	<b>19 973</b>	<b>-1,1</b>	<b>-220</b>

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 June 2010	January to June 2011 1/	% change between January to June 2010 and January to June 2011	Difference between January to June 2010 and January to June 2011
<b>Total - All producers</b>	<b>Electricity produced</b>	128 152	130 608	1,9	2 456
	<b>Purchased outside South Africa (import) 2/</b>	6 181	5 764	-6,7	-417
	<b>Consumed in power stations and auxiliary systems</b>	9 154	9 309	1,7	155
	<b>Sold outside South Africa (export) 3/</b>	7 076	7 034	-0,6	-42
	<b>Electricity available for distribution in South Africa</b>	<b>118 100</b>	<b>120 031</b>	<b>1,6</b>	<b>1 931</b>
<b>ESKOM</b>	<b>Electricity produced</b>	124 620	125 426	0,6	806
	<b>Purchased outside South Africa (import) 2/</b>	6 181	5 764	-6,7	-417
	<b>Consumed in power stations and auxiliary systems</b>	8 779	8 913	1,5	134
	<b>Sold outside South Africa (export) 3/</b>	7 076	7 034	-0,6	-42
	<b>Electricity available for distribution in South Africa</b>	<b>114 945</b>	<b>115 241</b>	<b>0,3</b>	<b>296</b>

1/ Preliminary.

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

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



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

Period	Gigawatt-hours 1/										
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Limpopo	Total South Africa	
2010	January	1 932	780	404	751	3 540	2 182	4 806	2 845	991	18 231
	February	1 842	719	383	706	3 281	2 029	4 592	2 658	917	17 127
	March	2 037	809	405	780	3 629	2 273	5 086	2 926	1 032	18 977
	April	1 873	750	362	735	3 432	2 100	4 959	2 813	970	17 994
	May	1 931	825	365	788	3 550	2 241	5 468	3 080	979	19 227
	June	1 946	828	378	813	3 559	2 159	5 836	3 011	991	19 521
	July	2 013	877	400	824	3 684	2 204	5 978	2 948	1 062	19 990
	August	1 968	827	386	779	3 595	2 167	5 360	2 802	1 038	18 922
	September	1 851	784	383	675	3 474	2 094	4 857	2 580	1 054	17 752
	October	1 911	846	429	724	3 577	2 276	5 009	2 907	1 088	18 767
	November	1 882	820	406	703	3 433	2 201	4 911	2 968	1 033	18 357
	December	1 907	781	418	694	3 371	2 004	4 645	2 945	1 044	17 809
	Year	23 093	9 646	4 719	8 972	42 125	25 930	61 507	34 483	12 199	222 674
Year to date	11 561	4 711	2 297	4 573	20 991	12 984	30 747	17 333	5 880	111 077	
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 2/	1 966	826	417	812	3 527	2 097	5 804	2 945	1 020	19 414
	Year to date	11 697	4 647	2 409	4 497	20 887	13 062	30 342	17 874	6 033	111 448

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

2/ Preliminary.

## Explanatory Notes

<b>Introduction</b>	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.
<b>Purpose of the survey</b>	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.
<b>Scope of the survey</b>	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.
<b>Classification</b>	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.
<b>Response rate</b>	7	The response rate for the survey on electricity generated and available for distribution for June 2011 was 99%.
<b>Statistical unit</b>	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).
<b>Survey methodology and design</b>	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 22 electricity undertakings or establishments.
<b>Monthly production indices</b>	11	The calculation of the monthly production indices is based on the volume of electricity units produced.

<b>Benchmarking</b>	<b>12</b>	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.
	<b>13</b>	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).
<b>Seasonal adjustment</b>	<b>14</b>	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.
<b>Trend cycle</b>	<b>15</b>	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.
<b>Related publications</b>	<b>16</b>	Users may also wish to refer to the following publications which are available from Stats SA : <ul style="list-style-type: none"> <li>• <i>Bulletin of Statistics</i>; and</li> <li>• <i>SA Statistics</i>.</li> </ul>
<b>Rounding-off of figures</b>	<b>17</b>	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

<b>Consumption of electricity</b>	For purposes of this release the term 'consumption of electricity' is used interchangeably with the term 'electricity available for distribution'.										
<b>Electricity undertaking</b>	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.										
<b>Index of physical volume of electricity production</b>	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.										
<b>Industry</b>	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.										
<b>Unit of electricity</b>	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.										
<b>Symbols and abbreviations</b>	<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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