

Statistical release

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Electricity generated and available for distribution (Preliminary)

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Summary of findings: Electricity generated and available for distribution

Key figures

Table A – Selected key figures regarding electricity generated and available for distribution for November 2010

Actual estimates	November 2010 1/	% change between November 2009 and November 2010	% change between September to November 2009 and September to November 2010	% change between January to November 2009 and January to November 2010
Electricity available for distribution (Gigawatt-hours)	19 742	2,6	1,4	4,1
Index of the physical volume of electricity production (2005=100)	106,0	3,4	2,2	4,2

1/ Preliminary.

Seasonally adjusted estimates	November 2010	% change between October and November 2010	% change between June to August 2010 and September to November 2010
Electricity available for distribution (Gigawatt-hours)	20 101	0,4	0,9
Index of the physical volume of electricity production (2005=100)	107,0	-0,3	1,2

Key findings

Consumption of electricity

The actual estimated volume of electricity consumed increased by 2,6% (494 Gigawatt-hours) in November 2010 compared with November 2009 (see Tables A, 2 and 9a). Electricity consumption for the first eleven months of 2010 increased by 4,1% (8 546 Gigawatt-hours) compared with the first eleven months of 2009 (see Tables A and 9b). Seasonally adjusted electricity consumption increased by 0,9% in the three months ended November 2010 compared with the three months ended August 2010 (see Tables A and B).

Production of electricity

The actual estimated production of electricity increased by 3,4% (708 Gigawatt-hours) in November 2010 compared with November 2009 (see Tables A, 5 and 9a). The estimated production of electricity for the first eleven months of 2010 increased by 4,2% (9 691 Gigawatt-hours) compared with the first eleven months of 2009 (see Tables A and 9b). Seasonally adjusted electricity production increased by 1,2% in the three months ended November 2010 compared with the three months ended August 2010 (see Tables A and B).

Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces increased by 4,2% (8 325 Gigawatt-hours) in the first eleven months of 2010 compared with the first eleven months of 2009. Increases were reported for all nine provinces, ranging from 0,2% for KwaZulu-Natal to 10,0% for Limpopo (see Table 10).

International trade in electricity

The volume of electricity purchased from outside South African borders increased from 11 183 Gigawatt-hours in the first eleven months of 2009 to 11 263 Gigawatt-hours in the first eleven months of 2010, representing an increase of 0,7% (80 Gigawatt-hours). The volume of electricity sold to neighbouring countries increased by 5,3% (677 Gigawatt-hours) in the first eleven months of 2010 compared with the first eleven months of 2009 (see Table 9b).

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended November 2010 and the previous three months

Gigawatt-hours	Seasonally adjusted quantity June to August 2010	Seasonally adjusted quantity September to November 2010	% change between June to August 2010 and September to November 2010	Quantity difference between June to August 2010 and September to November 2010
Electricity produced	64 150	64 934	1,2	784
Electricity available for distribution in South Africa	58 967	59 483	0,9	516

Table C – Comparison of actual estimates between the three months ended November 2010 and the three months ended November 2009

Gigawatt-hours	Actual volume September to November 2009	Actual volume September to November 2010	% change between September to November 2009 and September to November 2010	Quantity difference between September to November 2009 and September to November 2010
Electricity produced	63 798	65 244	2,3	1 446
Purchased outside South Africa (import)	2 975	2 856	-4,0	-119
Consumed in power stations and auxiliary systems	4 459	4 846	8,7	387
Sold outside South Africa (export)	3 786	3 886	2,6	100
Electricity available for distribution in South Africa	58 529	59 367	1,4	838

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa from January 2007 to November 2010.

Figure 1 – Electricity produced and available for distribution in South Africa from 2007 to 2010



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Detailed results

Table 1 – Total volume of electricity available for distribution in South Africa: 2005 – 2010

Month	Gigawatt-hours					
	2005	2006	2007	2008	2009	2010
January	18 149	18 603	19 561	19 256	17 919	19 396
February	17 169	17 396	18 301	18 668	16 757	18 181
March	18 487	18 982	20 160	19 603	18 694	20 186
April	18 132	18 122	18 982	19 127	17 934	19 110
May	19 224	20 312	20 901	20 365	19 548	20 441
June	18 983	20 166	21 020	20 515	19 819	20 758
July	19 657	20 632	21 780	21 610	21 151	21 316
August	19 191	20 307	21 353	20 736	20 398	20 540
September	18 383	18 987	19 732	19 725	19 382	19 257
October	19 127	19 663	20 435	20 138	19 899	20 368
November	18 523	19 244	19 785	18 640	19 248	1/ 19 742
December	18 230	18 909	19 160	17 541	18 850	
Year	223 255	231 323	241 170	235 924	229 599	

1/ Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2005 – 2010

Month	Percentage change 2/					
	2005	2006	2007	2008	2009	2010
January	1,7	2,5	5,1	-1,6	-6,9	8,2
February	-0,6	1,3	5,2	2,0	-10,2	8,5
March	0,1	2,7	6,2	-2,8	-4,6	8,0
April	3,5	-0,1	4,7	0,8	-6,2	6,6
May	1,7	5,7	2,9	-2,6	-4,0	4,6
June	-1,8	6,2	4,2	-2,4	-3,4	4,7
July	-2,5	5,0	5,6	-0,8	-2,1	0,8
August	-0,4	5,8	5,2	-2,9	-1,6	0,7
September	0,1	3,3	3,9	0,0	-1,7	-0,6
October	2,2	2,8	3,9	-1,5	-1,2	2,4
November	1,1	3,9	2,8	-5,8	3,3	2,6
December	2,7	3,7	1,3	-8,4	7,5	
Year	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 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: 2005 – 2010

Month	Gigawatt-hours						% change between current and previous month
	2005	2006	2007	2008	2009	2010	
January	18 494	18 955	19 959	19 693	18 367	19 914	1,0
February	18 647	18 927	19 956	20 460	18 411	19 998	0,4
March	18 457	18 951	20 145	19 594	18 687	20 165	0,8
April	19 073	19 097	20 001	20 171	18 895	20 109	-0,3
May	18 470	19 545	20 138	19 681	18 943	19 841	-1,3
June	18 252	19 408	20 218	19 715	19 057	19 957	0,6
July	18 270	19 144	20 114	19 875	19 381	19 503	-2,3
August	18 346	19 363	20 318	19 692	19 377	19 507	0,0
September	18 608	19 169	19 894	19 864	19 520	19 370	-0,7
October	18 901	19 431	20 179	19 823	19 569	20 012	3,3
November	18 816	19 574	20 146	18 983	19 578	20 101	0,4
December	18 992	19 687	19 988	18 320	19 717		

Table 4 – Indices of the physical volume of electricity production: 2005 – 2010

Month	Base : 2005=100					
	2005	2006	2007	2008	2009	2010
January	97,6	99,8	103,9	105,3	95,0	103,4
February	91,7	94,0	97,2	99,7	88,5	96,5
March	100,2	103,3	107,8	105,6	99,3	107,4
April	98,1	98,0	100,9	102,0	96,1	102,0
May	102,9	108,1	111,9	109,6	104,5	108,5
June	101,6	107,3	112,5	108,8	104,8	110,1
July	105,5	110,8	116,6	115,1	112,8	113,0
August	103,0	109,1	114,1	110,3	108,8	109,4
September	99,1	101,8	105,5	104,8	104,4	102,8
October	102,5	107,2	109,1	109,4	105,6	110,8
November	99,4	103,3	106,9	101,4	102,6	1/ 106,0
December	98,2	100,9	104,6	93,6	100,3	
Year	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: 2005 – 2010

Month	Percentage change 2/					
	2005	2006	2007	2008	2009	2010
January	2,2	2,3	4,1	1,3	-9,8	8,8
February	-0,5	2,5	3,4	2,6	-11,2	9,0
March	1,5	3,1	4,4	-2,0	-6,0	8,2
April	3,6	-0,1	3,0	1,1	-5,8	6,1
May	0,5	5,1	3,5	-2,1	-4,7	3,8
June	-3,2	5,6	4,8	-3,3	-3,7	5,1
July	-3,7	5,0	5,2	-1,3	-2,0	0,2
August	-1,2	5,9	4,6	-3,3	-1,4	0,6
September	-0,4	2,7	3,6	-0,7	-0,4	-1,5
October	0,4	4,6	1,8	0,3	-3,5	4,9
November	0,9	3,9	3,5	-5,1	1,2	3,4
December	2,3	2,7	3,7	-10,5	7,2	
Year	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 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: 2005 – 2010

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

Table 7 – Total volume of electricity imported: 2005 – 2010

Month	Gigawatt-hours					
	2005	2006	2007	2008	2009	2010
January	729	872	1 088	638	1 102	1 122
February	714	646	942	885	999	995
March	533	581	973	802	1 064	1 040
April	598	587	1 055	844	906	931
May	849	879	900	761	937	1 074
June	813	881	880	1 002	1 088	1 019
July	856	926	984	1 089	1 040	1 117
August	883	930	1 045	1 076	1 072	1 109
September	686	971	1 026	1 044	920	1 068
October	836	682	1 040	645	1 115	770
November	865	862	796	711	940	1/ 1 018
December	837	965	619	1 075	1 112	
Year	9 199	9 782	11 348	10 572	12 295	

1/ Preliminary.

Table 8 – Total volume of electricity exported: 2005 – 2010

Month	Gigawatt-hours					
	2005	2006	2007	2008	2009	2010
January	1 030	1 056	1 134	1 280	1 096	1 217
February	901	1 050	1 060	1 101	979	1 128
March	968	1 129	1 231	1 136	1 100	1 252
April	991	1 017	1 132	998	1 086	1 164
May	1 083	1 046	1 203	1 120	1 109	1 172
June	1 096	1 102	1 256	1 162	1 175	1 175
July	1 102	1 239	1 301	1 249	1 223	1 197
August	1 144	1 262	1 252	1 220	1 235	1 275
September	1 134	1 239	1 186	1 203	1 285	1 247
October	1 161	1 311	1 252	1 258	1 288	1 341
November	1 119	1 186	1 256	1 252	1 213	1/ 1 298
December	1 155	1 129	1 233	1 189	1 263	
Year	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				
		November 2009	October 2010	November 2010 1/	% change between November 2009 and November 2010	Difference between November 2009 and November 2010
Total - All producers	Electricity produced	20 935	22 624	21 643	3,4	708
	Purchased outside South Africa (import)	940	770	1 018	8,3	78
	Consumed in power stations and auxiliary systems	1 415	1 685	1 620	14,5	205
	Sold outside South Africa (export)	1 213	1 341	1 298	7,0	85
	Electricity available for distribution in South Africa	19 248	20 368	19 742	2,6	494
ESKOM	Electricity produced	20 333	21 718	20 898	2,8	565
	Purchased outside South Africa (import)	940	770	1 018	8,3	78
	Consumed in power stations and auxiliary systems	1 357	1 601	1 547	14,0	190
	Sold outside South Africa (export)	1 213	1 341	1 298	7,0	85
	Electricity available for distribution in South Africa	18 704	19 546	19 070	2,0	366

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 November 2009	January to November 2010 1/	% change between January to November 2009 and January to November 2010	Difference between January to November 2009 and January to November 2010
Total - All producers	Electricity produced	229 088	238 779	4,2	9 691
	Purchased outside South Africa (import)	11 183	11 263	0,7	80
	Consumed in power stations and auxiliary systems	16 737	17 279	3,2	542
	Sold outside South Africa (export)	12 789	13 466	5,3	677
	Electricity available for distribution in South Africa	210 749	219 295	4,1	8 546
ESKOM	Electricity produced	221 218	231 045	4,4	9 827
	Purchased outside South Africa (import)	11 183	11 263	0,7	80
	Consumed in power stations and auxiliary systems	15 959	16 554	3,7	595
	Sold outside South Africa (export)	12 789	13 466	5,3	677
	Electricity available for distribution in South Africa	203 655	212 287	4,2	8 632

1/ Preliminary.

Table 10 – Total volume of electricity delivered by Eskom to provinces for 2009 and 2010 1/

Period	Gigawatt-hours										
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Limpopo	Total South Africa	
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	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
Year to date	20 743	8 137	4 209	8 021	38 582	22 219	55 314	28 799	10 150	196 174	
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	2 106	4 929	2 813	983	17 982
	May	1 930	825	365	788	3 551	2 259	5 411	3 079	979	19 187
	June	1 946	797	378	814	3 527	2 175	5 784	3 011	991	19 424
	July	2 005	811	400	824	3 684	2 188	5 978	2 948	1 062	19 900
	August	2 004	899	392	779	3 508	2 208	5 416	2 797	1 038	19 041
	September	1 851	764	387	673	3 474	2 095	4 824	2 580	1 054	17 702
	October	1 911	802	419	708	3 577	2 272	4 969	2 907	1 088	18 653
	November	1 882	778	406	703	3 441	2 211	4 877	2 944	1 033	18 275
	Year to date	21 213	8 734	4 301	8 261	38 644	23 998	56 672	31 508	11 168	204 499

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. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.
Classification	6	The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> with suitable adaptations for local conditions. Each statistical unit is classified to an industry, which reflects the predominant activity of the electricity undertaking or establishment.
Response rate	7	The response rate for the survey on electricity generated and available for distribution for November 2010 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. Information is collected 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. These levels are weighted according to the original sample and designed to represent the population of electricity undertakings and establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of electricity, gas and steam. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking.
	13	The results of the 1995 Census of electricity, gas and steam served as a benchmark to verify or adjust the level of the monthly physical volume of electricity production indices collected through the monthly sample survey. The level adjustments were done on the volume indices for August of the relevant census year (the 1995 census year covered the period 1 January 1995 to 31 December 1995 and therefore, the benchmarking was done using the index of August 1995 as reference point).
Seasonal adjustment	14	Seasonally adjusted estimates of all items are generated each month, using the X-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>; and • <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 of figures	18	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.
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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