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Statistical release P4141

Electricity generated and available for distribution (Preliminary)

December 2010

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

Actual estimates	December 2010 1/	% change between December 2009 and December 2010	% change between October to December 2009 and October to December 2010	% change between January to December 2009 and January to December 2010
Electricity available for distribution				
(Gigawatt-hours)	19 055	1,1	2,0	3,8
Index of the physical volume of electricity production (2005=100)	102,2	2,0	3,4	4,0

1/ Preliminary.

Seasonally adjusted estimates	December 2010	% change between November and December 2010	% change between July to September 2010 and October to December 2010
Electricity available for distribution			
(Gigawatt-hours)	19 937	-0,9	3,2
Index of the physical volume of electricity			
production (2005=100)	106,9	-0,3	3,5

Consumption of electricity

The actual estimated volume of electricity consumed increased by 1,1% (205 Gigawatt-hours) in December 2010 compared with December 2009 (see Tables A, 2 and 9a). Seasonally adjusted electricity consumption increased by 3,2% in the fourth quarter of 2010 compared with the third quarter of 2010 (see Tables A and B).

Electricity consumption for the year 2010 increased by 3,8% (8 751 Gigawatt-hours) compared with the year 2009 following a decrease of 2,7% (-6 325 Gigawatt-hours) between 2008 and 2009 (see Tables A, 2 and 9b).

Production of electricity

The actual estimated production of electricity increased by 2,0% (400 Gigawatt-hours) in December 2010 compared with December 2009 (see Tables A, 5 and 9a). Seasonally adjusted electricity production increased by 3,5% in the fourth quarter of 2010 compared with the third quarter of 2010 (see Tables A and B).

The estimated production of electricity for the year 2010 increased by 4,0% (10 091 Gigawatt-hours) compared with the year 2009 (see Tables A, 5 and 9b).

Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces increased by 3,9% (8 368 Gigawatt-hours) for the year 2010 compared with the year 2009. Eight out of nine provinces reported increases, ranging from 1,9% for Northern Cape to 10,0% for Limpopo. KwaZulu-Natal reported a decrease of 0,2% (see Table 10).

International trade in electricity

The volume of electricity purchased from outside South African borders decreased from 12 295 Gigawatt-hours in 2009 to 12 193 Gigawatt-hours in 2010, representing a decrease of 0,8% (-102 Gigawatt-hours). The volume of electricity sold to neighbouring countries increased by 4,2% (593 Gigawatt-hours) in 2010 compared with 2009 (see Table 9b).

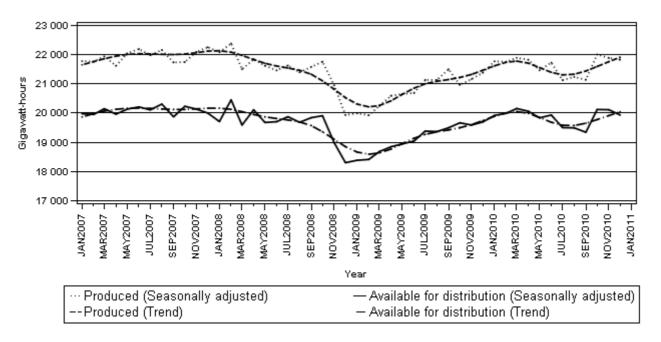
Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the fourth quarter of 2010 and the third quarter of 2010

Gigawatt-hours	Seasonally adjusted quantity July to September 2010	Seasonally adjusted quantity October to December 2010	% change between July to September 2010 and October to December 2010	Quantity difference between July to September 2010 and October to December 2010
Electricity produced	63 524	65 746	3,5	2 222
Electricity available for distribution in South Africa	58 340	60 179	3,2	1 839

Table C – Comparison of actual estimates between the fourth quarter of 2010 and the fourth quarter of 2009

Gigawatt-hours	Actual volume October to December 2009	Actual volume October to December 2010	% change between October to December 2009 and October to December 2010	Quantity difference between October to December 2009 and October to December 2010
Electricity produced	62 961	65 136	3,5	2 175
Purchased outside South Africa (import)	3 167	2 718	-14,2	-449
Consumed in power stations and auxiliary systems	4 368	4 870	11,5	502
Sold outside South Africa (export)	3 764	3 818	1,4	54
Electricity available for distribution in South Africa	57 997	59 165	2,0	1 168

Figure 1 – Electricity produced and available for distribution in South Africa, seasonally adjusted and trend



PJ Lehohla Statistician-General

Tables

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

Month	Gigawatt-hours								
WOTUT	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			
Мау	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	19 742			
December	18 230	18 909	19 160	17 541	18 850	1/ 19 055			
Year	223 255	231 323	241 170	235 924	229 599	238 350			

1/ Preliminary.

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

Month	Percentage change 2/									
wonth	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				
Мау	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	1,1				
Year	0,6	3,6	4,3	-2,2	-2,7	3,8				

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

		Gigawatt-hours										
Month	2005	2006	2007	2008	2009	2010	% change between current and previous month					
January	18 509	18 975	19 979	19 711	18 381	19 921	1,1					
February	18 646	18 925	19 956	20 457	18 409	19 993	0,4					
March	18 467	18 963	20 153	19 591	18 679	20 158	0,8					
April	19 058	19 075	19 964	20 114	18 845	20 064	-0,5					
Мау	18 469	19 542	20 137	19 679	18 943	19 838	-1,1					
June	18 255	19 409	20 214	19 706	19 040	19 935	0,5					
July	18 268	19 143	20 112	19 878	19 383	19 503	-2,2					
August	18 347	19 360	20 311	19 684	19 366	19 494	-0,0					
September	18 591	19 150	19 874	19 844	19 497	19 343	-0,8					
October	18 908	19 462	20 235	19 911	19 668	20 125	4,0					
November	18 810	19 562	20 137	18 985	19 590	20 117	0,0					
December	18 994	19 689	20 003	18 298	19 697	19 937	-0,9					

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

Month	Base : 2005=100									
wonth	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				
Мау	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	106,0				
December	98,2	100,9	104,6	93,6	100,3	1/ 102,2				
Year	100,0	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: 2005 – 2010

Month	Percentage change 2/									
MOITT	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				
Мау	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	3,3				
December	2,3	2,7	3,7	-10,5	7,2	2,0				
Year	0,1	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: 2005 – 2010

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

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

Manuali	Gigawatt-hours									
Month	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				
Мау	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	1 018				
December	837	965	619	1 075	1 112	1/ 930				
Year	9 199	9 782	11 348	10 572	12 295	12 193				

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

Month	Gigawatt-hours									
Month	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				
Мау	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	1 298				
December	1 155	1 129	1 233	1 189	1 263	1/ 1179				
Year	12 884	13 766	14 496	14 168	14 052	14 645				

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 2009	November 2010	December 2010 1/	% change between December 2009 and December 2010	Difference between December 2009 and December 2010	
Total - All	Electricity produced	20 469	21 643	20 869	2,0	400	
producers	Purchased outside South Africa (import)	1 112	1 018	930	-16,4	-182	
	Consumed in power stations and auxiliary systems	1 468	1 620	1 565	6,6	97	
	Sold outside South Africa (export)	1 263	1 298	1 179	-6,7	-84	
	Electricity available for distribution in South Africa	18 850	19 742	19 055	1,1	205	
ESKOM	Electricity produced	19 875	20 898	20 256	1,9	381	
	Purchased outside South Africa (import)	1 112	1 018	930	-16,4	-182	
	Consumed in power stations and auxiliary systems	1 424	1 547	1 510	6,0	86	
	Sold outside South Africa (export)	1 263	1 298	1 179	-6,7	-84	
	Electricity available for distribution in South Africa	18 300	19 070	18 498	1,1	198	

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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 2009	January to December 2010 1/	% change between January to December 2009 and January to December 2010	Difference between January to December 2009 and January to December 2010	
Total - All producers	Electricity produced	249 557	259 648	4,0	10 091	
producers	Purchased outside South Africa (import)	12 295	12 193	-0,8	-102	
	Consumed in power stations and auxiliary systems	18 205	18 844	3,5	639	
	Sold outside South Africa (export)	14 052	14 645	4,2	593	
	Electricity available for distribution in South Africa	229 599	238 350	3,8	8 751	
ESKOM	Electricity produced	241 093	251 301	4,2	10 208	
	Purchased outside South Africa (import)	12 295	12 193	-0,8	-102	
	Consumed in power stations and auxiliary systems	17 383	18 064	3,9	681	
	Sold outside South Africa (export)	14 052	14 645	4,2	593	
	Electricity available for distribution in South Africa	221 955	230 785	4,0	8 830	

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						Gigawatt-	hours				
	Period	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	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
	Мау	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
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
	Мау	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
	December 2/	1 909	730	418	694	3 371	2 066	4 575	2 945	1 044	17 750
	Year	23 122	9 464	4 719	8 955	42 015	26 064	61 247	34 453	12 212	222 249

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

Wholesale energy as delivered by Eskom to the various provinces.
 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.

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- 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 4The results of the monthly electricity generated and available for distributionsurveysurvey 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 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.
- **Response rate 7** The response rate for the survey on electricity generated and available for distribution for December 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 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 establishment 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.

Monthly11The calculation of the monthly production indices is based on the volume of
electricity units produced.indices11The 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 :
		 Bulletin of Statistics; and SA Statistics.
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.

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	GDPGross domestic productISICInternational Standard Industrial ClassificationSICStandard Industrial Classification of all Economic ActivitiesStats SAStatistics South Africa*Revised figures			

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