Census of electricity, gas and steam P4101

1995

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Head: Central Statistical Service

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CONSUMPTION OF ELECTRICITY BY THE MANUFACTURING

SECTOR INCREASED BETWEEN 1992 AND 1995

According to the results of the Census of electricity, gas and steam, 1995 the gross production of electricity in South Africa increased by 11,0% (from 168 128 gigawatt hours in 1992 to 186 744 gigawatt hours in 1995). The manufacturing sector which is the largest consumer of electricity consumed 17,4% or 9 480 gigawatt hours more electricity in 1995 than in 1992.

Electricity available for consumption increased by 10,0% between 1992 and 1995. Consumption by the manufacturing and commercial sectors increased by 16,3% (+11 456 gigawatt hours) whereas domestic consumption increased by 12,4% (+2 953 gigawatt hours). Consumption by Mines and Transnet remained virtually on the same level. Regarding the manufacturing sector the basic iron and steel industry was responsible for the largest increase in the demand for electricity. Establishments in the manufacturing sector consumed 41,0% of the total electricity available for consumption in 1995, compared to 38,4% in 1992 and 40,3% in 1989.

NOTES

The Central Statistical Service periodically conducts a census of electricity, gas and steam in respect of public supply undertakings, i.e. undertakings of which the primary purpose is the production, transmission and distribution of electricity, gas and steam; as well as self-producers, i.e. undertakings which in addition to their main activities also produce electrical energy intended mainly for their own use. Private undertakings which include public corporations, as well as government undertakings, are covered.

The latest census for which information is available is in respect of the 1995 calendar year and this release contains preliminary results of the principal statistics of that census together with comparable data of previous censuses. Particulars of production and consumption of electricity, as well as gross production of electricity by type of undertaking are shown.

The complete results of the census will be published in 1997 in report No. 41-01-01 (1995). This report will be obtainable from the Government Printing Works, Pretoria

or Cape Town.

The information for 1995 and 1992 relates to the RSA including the former TBVC states. To maintain comparability with information for previous years, two sets of figures are shown for 1989. In the first set of figures the former TBVC states are regarded as "outside the Republic", whereas the second set of figures relates to the RSA including the former TBVC states.

TABLE 1. PRODUCTION AND CONSUMPTION OF ELECTRICITY - ALL UNDERTAKINGS

Census year	3 3Electricity 3generated 3		3 Purchases 3outside the Republic 3		³ Consumed ³ power sta ³ and auxi ³ systems	3 3Lost dur: as3distribut ry3 3	_	3 Sales outside 3 the Republic 3 3		³ Electricity ³ available f ³ consumption ³ in the Repu ³ blic ⁶		
	3				(Sigaw	att hours		71		71	
1971	54	647			3	552	3	865		14	47	216
1973	64	390		_	4	116	4	325		194	55	755
1975	74	894		25	4	753	5	369		283	64	514
1976		358		214		865		694		327		686
1977		323		288		704		843		417		648
1978		496		973		070		767		441		190
1979		748	10			690		879		795		739
1980		951		645		524		556		871		646
1981	113			660		668*		040		232		376*
1982	119			167		639*		649		406		484*
1983	121			084		125*		373		875		834*
1986	146			312		364*		602		634		233*
1989	163			344		793*		220		389		419*
1989 2/	163			304		793*		220		638		169
1992* 1995	168 186			344 172	13	589 737		036 593		816 047		031 244

TABLE 2. UTILISATION OF ELECTRICITY - ALL UNDERTAKINGS

 3 Utilisation of total quantity of electricity available for consumption in the Republic 3 according to type of consumer

Census year	3	Minim	_	3	7	ransı	net Lt			3			³ Manufactu				
	3	MITIIII	Mining		Tractio	on			ırposes		Domestic use		3	elc.	3 other j	1/	poses
	3								Gigawa	att l	nours						
1971		14	457		2	676			602		8	088	19	282		2	111
1973		16	102		2	904			616		9	265	24	408		2	461
1975		17	749		3	159			696		9	991	29	784		3	136
1976		18	994		3	356			735		10	474	32	558		3	569
1977		20	318		3	538			775		11	302	33	615		4	099
1978		22	400		3	517			796		11	718	35	427		4	332
1979		23	939		3	730			915		12	330	40	101		4	723
1980		25	260		4	323			989		13	522	43	049		5	502
1981		26	311		4	652			999		14	738	45	921*		5	755
1982		27	166		4	883		1	. 115		14	618	45	945*		6	757
1983		27	806		4	339			921		14	490	50	101*		6	177
1986		29	942		3	903			828		17	644	62	743*		7	174
1989		33	909				4 91	5			20	780	69	362*		8	452
1989 2/		34	963				4 91	5			21	125	70	445*		8	971
1992*		33	359				4 34	7			23	834	70	189	:	10	301
1995		33	732				4 03	8			26	787	81	645	:	10	042

^{1/} Rand Water Board and Joint Services Boards, local authorities, agriculture, forestry and fisheries.

TABLE 3. ELECTRICITY GENERATED ACCORDING TO TYPE OF UNDERTAKING

	3	Public supply undertakings							3				Self producers					
Census year	3 3	Tot	al	3 3 ES	3Local 3 3 3 XOM 3authorities 3 Other 3 Total 3 3 3 3		3	Mines	3 Manufac- 3 turing	³ Transnet ³ Ltd and ³ other								
	3							 Giga	watt	hour	îs							
1971		 52	665	43	473	9	178	 15		1	982		447	1 436	99			
1974		62	382	53	040	9	341	1		2	800		391	1 512	105			
1975		72	904	65	479	7	421	3		1	990		404	1 510	75			
1976		77	433	70	287	7	143	3		1	924		345	1 502	77			
1977		78	405	70	986	7	415	3		1	919		334	1 513	72			
1978		82	703	75	186	7	514	3		1	793		208	1 519	66			
1979		87	749	80	248	7	492	9		1	999		91	1 842	66			
1980		95	973	88	577	7	392	4		2	978		92	2 824	62			
1981		110	802	103	452	7	345	5		2	853		85	2 685	84			

⁻ Nil or not applicable

^{2/} RSA including the former TBVC states (see Notes).

^{*} Revised

1982	115 479	108 665	6 813	2	3 532	81	3 379	72
1983	115 862	109 250	6 610	1	5 261	82	5 111	68
1986	139 932	133 578	6 348	6	6 589	93	6 430	65
1989	156 030	151 550	4 471	9	7 446	75	7 327	44
19892/	156 320	151 550	4 471	300	7 446	75	7 327	44
1992	161 343	157 444	3 733	167	6 784	71*	6 674*	40
1995	179 804	174 647	5 157	0	6 940	47	6 886	7

^{2/} RSA including the former TBVC states (see Notes).

TABLE 4. FUEL CONSUMED FOR THE GENERATION OF ELECTRICITY

m	3		3	Census year					
Type of fuel	3	Unit	3	1995	3	1992			
 Coal	3		3		3				
	3		3		3				
Low grade	3	1 000 t	3	14 459	3	11 745*			
Standard grade	3	1 000 t	3	72 422	3	64 844*			
High grade	3	1 000 t	3	1 416	3	1 429			
otal	3	1 000 t	3	88 296	3	78 018			
	3		3		3				
etroleum products	3		3		3				
-	3		3		3				
Industrial furnace oil	3	kl	3	66 842	3	85 217			
Industrial diesel oil	3	kl	3	574 677	3	584 846			
Automotive diesel oil	3	kl	3	37 841	3	27 970			
Paraffin	3	kl	3	7	3	0			
Other petroleum products	3	kl	3	15	3	0			
Total petroleum products Revised	3	kl	3						

TABLE 5. UTILISATION OF TOTAL QUANTITY OF ELECTRICITY AVAILABLE FOR CONSUMPTION IN THE REPUBLIC FOR THE YEAR ENDED 31 DECEMBER 1995

Units consumed by	3	Gigawatt-hours
Own local authority departments:	3	
	3	
Water departments	3	385
-	3	
Public lighting	3	881
	3	
Own buildings	3	1 292
	3	
Other purposes	3	
	3	
Electricity sold and/or used in connection with the following:	3	

^{*} Revised

	3		
Agriculture, forestry and fisheries	3	4	338
	3		
Mining	3		
Gold and uranium	3		384
Other	3	11	348
Manufacturing	3	<i>c</i> 1	077
Manufacturing	3	64	077
Rand Water Board and regional water services corporations	3	2	747
Name water board and regional water services corporations	3	2	717
Transnet Ltd and filiations	3	4	038
	3	-	
Commerce, construction and other business undertakings, government departments	3		
and other public authorities	3	17	568
	3		
Domestic use	3	26	787
	3		
Street lighting (excluding local authorities)	3		16
	3		
Electricity sold and/or used for other purposes	3		383
	3		0.4.4
TOTAL	.		244

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