

Table 4 Volume of emissions per sector based on volume coal purchased: 2000

	Coal consumed	Weighted sulphur content ^a	Sulphur ^b	S to SO ₂ ^c	SO ₂ ^d	CH ₄ ^e	CH ₄ ^f	Weighted carbon content ^g	Carbon ^h	C to CO ₂ ⁱ	CO ₂ ^j	Ash ^k	Vm
	t	%	t	Conversion factor	t	kg/ton of coal	t	%	t	Conversion factor	t	t	
SCOR	1 583 865	0,8999	14 253	2	28 506	24,7	39 121	55,02	871 493	3,667	3 195 475	257 034	
Metallurgical	1 272 014	0,82	10 431	2	20 861	24,7	31 419	63,56	808 502	3,667	2 964 507	115 544	
Agriculture	69 053	0,8207	567	2	1 133	24,7	1 706	56,26	38 849	3,667	142 447	10 396	
Iron and Steel	2 881 311	0,82	23 627	2	47 254	24,7	71 168	56,12	1 617 010	3,667	5 929 036	469 284	
Industries	2 630 809	0,8998	23 672	2	47 344	24,7	64 981	55,1	1 449 658	3,667	5 315 411	425 711	
Chemical Industries	1 080 816	0,8991	9 718	2	19 435	24,7	26 696	55,72	602 235	3,667	2 208 196	171 011	
Merchants and Domestic	3 920 241	0,8254	32 358	2	64 715	24,7	96 830	56,67	2 221 637	3,667	8 146 003	577 948	
Gold and Uranium Mines	24 043	0,9	216	2	433	24,7	594	54,9	13 200	3,667	48 399	3 919	
Other Mining	120 998	0,9	1 089	2	2 178	24,7	2 989	54,9	66 428	3,667	243 569	19 723	
Water	146 534	0,82	1 202	2	2 403	24,7	3 619	56,2	82 352	3,667	301 958	23 885	
SASOL (calculated)	46 334 788	0,97	449 447	2	898 895	24,7	1 144 469	39,03 ⁿ	18 086 362	3,667	66 316 667	12 510 392	10
SASOL (Own figures ^m)	51 800 000				293 000		1 144 469 ^p				57 713 000	11 841 000	1
Cement and Lime	1 071 221	0,9	9 641	2	19 282	24,7	26 459	54,9	588 100	3,667	2 156 368	174 609	
Electricity (Non-ESKOM)	1 556 304	0,97	15 096	2	30 192	24,7	38 441	42,5	661 429	3,667	2 425 240	471 560	
ESKOM (calculated)	91 811 056	0,97	890 567	2	1 781 134	24,7	2 267 733	42,5	39 019 699	3,667	143 072 229	27 818 750	21
ESKOM (Own figures ^o)	92 300 000				1 505 000		2 267 733 ^p				161 200 000	24 600 000	
Brick and Tile	176 517	0,9	1 589	2	3 177	24,7	4 360	54,9	96 908	3,667	355 329	28 772	
Total (Only own figures)	160 633 726				2 084 913		3 820 585				252 344 938	39 190 396	5

a: Pinheiro *et al.* 1997 (see Annexure A) percentages applied to 2000 production from DME 2001. b: Calculated. c: Discussed in text. d: Calculated.

e: Discussed in text. f: calculated. g: Pinheiro *et al.* 1997 (see Annexure A) percentages applied to 2000 production from DME 2001. h: Calculated.

i: Discussed in text. j: Calculated. k: Discussed in text. l: Discussed in text. m: SASOL 2001b. n: Effective weight after taking chemical extraction process account. o: ESKOM 2001. p: Not published, taken from calculated figures.