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Energy consumption standards and costs in South African gold and platinum mines

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2009-06-24T12:10:03Z
http://hdl.handle.net/10539/7043

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APPENDIX C1

TOTAL ENERGY CONSUMPTION

APPENDICE C1.1 - GOLD

Mine unit	Underground				Plants			Total (GJ)
	Electricity (KWh)	Conversion (GJ)	Liquid fuel (GJ)	Sub Tota	Elect (KWh)	conv (GJ)	liquid fuel	
1*	412,266,220	114518	1,796	116314	182,573,749	50515	1,868	268831
2*	353,230,860	98120	2,014	100134	179,146,832	49763	1,841	151738
3*	316,957,468	88044	1,766	89810	58,589,332	16275	6,021	112106
4*	181,311,518	50364	24,521	74885	68,489,491	19025	9,005	83909
5*	570,795,816	158554	6,388	164942	88,734,204	24648	1,045	190635
6*	177,686,929	49358	581	49939	92,257,422	28627	7,038	85604
7*	617,896,329	171637	3,055	174692	0			
8**	1,910,010,000	530583	16,000	546583	248,301,300	68973	9,420	624976
9**	931,533,000	258759	4,400	263159	111,783,960	31051	5,430	299640
10**	1,887,032,000	524176	11,000	535176	132,092,240	36692	5,450	577318
11**	550,000,000	152778	3,056	155834				155834

* Anglo Gold mines ** Goldfields mines

APPENDICE B1.2 - PLATINUM

Mine unit	Underground				Plants			Total (GJ)
	Electricity (KWh)	Conversion (GJ)	Liquid fuel (GJ)	Sub tot	Elect (KWh)	conv (GJ)	liquid fuel	
21***	3,724,110,000	1034475	3780000	1412475	2,068,950,000	574708	21200	20008383
22***	2,310,624,000	641840	220500	862340	1,080,970,000	300269	11200	1173809
23***	1,440,894,000	400249	105000	505249	711,120,000	197533	5950	708732
24***	748,496,000	207916	65000	272916	239,685,000	66579	3500	342995
25***	352,488,000	97914	45000	142914	213,564,000	59323	2000	204237
26***	305,347,437	84541	1028	85569	146,206,552	40613	1178	127360

*** Anglo Platinum mines **** Northam mine