

# Africa

Energy Efficiency/CO2 <sup>1</sup> Indicators	Units	1980	1990	2000	2005
<b>Key indicators</b>					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$95p	0,299	0,325	0,326	0,312
Primary energy intensity excluding traditional fuels (ppp)	koe/\$95p	0,145	0,170	0,173	0,171
Primary energy intensity adjusted to EU structure (ppp)	koe/\$95p	0,268	0,303	0,319	0,306
Final energy intensity (at ppp)	koe/\$95p	0,241	0,239	0,221	0,210
Final energy intensity at 1995 GDP structure <sup>3</sup> (ppp)	koe/\$95p	0,229	0,236	0,242	0,239
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$95p	0,199	0,216	0,228	0,221
CO2 intensity (at ppp)	kCO2/\$95p	n.a.	0,456	0,461	0,454
CO2 emissions per capita	tCO2/cap	n.a.	0,87	0,88	0,95
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$95p	0,148	0,147	0,161	0,156
Energy intensity of manufacturing (at ppp)	koe/\$95p	0,333	0,303	0,335	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$95p	0,779	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	0,94	0,80	0,58	0,49
CO2 intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO2/\$95p	n.a.	0,426	0,407	0,297
CO2 emissions of industry <sup>2</sup> per capita	tCO2/cap	n.a.	0,23	0,21	0,16
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$95p	0,034	0,034	0,038	0,037
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	n.a.	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	n.a.	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$95p	n.a.	0,097	0,107	0,106
CO2 emissions of transport per capita	tCO2/cap	n.a.	0,18	0,20	0,22
<b>Residential, service and agriculture sectors</b>					
Energy intensity of households (to private consumption) (at ppp)	koe/\$95p	0,219	0,231	0,217	0,212
Average electricity consumption of households per capita	kWh/cap	65	95	116	139
Average electricity consumption per household	kWh/hh	n.a.	483	554	674
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	1615	n.a.
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	n.a.	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$95p	0,009	0,010	0,014	0,017
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$95p	48	66	90	106
Unit consumption of services per employee	toe/emp	n.a.	n.a.	n.a.	n.a.
Unit electricity consumption of services per employee	kWh/emp	n.a.	n.a.	n.a.	n.a.
Energy intensity of agriculture (to value added) (at ppp)	koe/\$95p	0,016	0,016	0,020	0,021
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$95p	n.a.	0,045	0,049	0,056
CO2 emissions of residential sector per household	tCO2/hh	n.a.	0,30	0,27	0,33
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$95p	n.a.	0,014	0,011	0,015
CO2 emissions of service sector per employee	tCO2/emp	n.a.	n.a.	n.a.	n.a.
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$95p	n.a.	0,040	0,040	0,042
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0,01	0,01	0,02
<b>Transformation sector</b>					
Overall efficiency of energy transformations	%	69,4	60,2	59,3	59,6
Efficiency of total electricity generation	%	36,0	38,3	37,5	37,8
Rate of electricity transmission-distribution losses	%	10,2	10,2	12,4	12,6
Efficiency of thermal power plants	%	29,5	33,7	33,1	33,6
<b>Diffusion of energy/CO2 efficient technologies and practices</b>					
Per capita installed capacity of solar water heaters	m <sup>2</sup> /1000inhab	n.a.	n.a.	n.a.	n.a.
Share of biofuels in road transport energy consumption	%	n.a.	n.a.	n.a.	n.a.
Share of biomass in industry energy consumption	%	6,2	7,5	27,9	26,7
Share of renewables in electricity generating capacity	%	28,1	23,0	21,2	20,1
Share of renewables in gross electricity consumption	%	24,3	18,4	17,4	16,9

<sup>1</sup> CO2 from fuel combustion

<sup>2</sup> incl. autoproducers

<sup>3</sup> by main sector