

Africa

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.278	0.304	0.294	0.260
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.135	0.159	0.154	0.145
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.238	0.257	0.261	0.243
Final energy intensity (at ppp)	koe/\$05p	0.213	0.210	0.199	0.176
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.179	0.183	0.190	0.179
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.175	0.180	0.184	0.172
Ratio final/primary intensity	%	78.4	72.0	70.8	69.9
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.426	0.415	0.384
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	0.85	0.85	0.96
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.171	0.162	0.135	0.119
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.393	0.349	0.287	0.267
Energy intensity of chemicals industry (at ppp)	koe/\$05p	4.478	n.a.	n.a.	4.829
Unit consumption of steel	toe/t	n.a.	0.76	0.52	0.43
Share of electric process in steel production	%	0	13.7	49.1	63.6
Share of industrial cogeneration in power generation	%	n.a.	n.a.	n.a.	n.a.
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.352	0.290	0.220
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	0.21	0.17	0.16
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.029	0.029	0.031	0.029
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.
Share of biofuels in road transport energy consumption	%	n.a.	n.a.	n.a.	n.a.
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.085	0.092	0.086
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	0.17	0.19	0.22
Households					
Average electricity consumption of households per capita	kWh/cap	66	96	115	154
Average electricity consumption of electrified households	kWh/hh	n.a.	1828	1696	1919
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	n.a.	n.a.
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0.1	0.1	0.5
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	0.33	0.28	0.38
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.010	0.011	0.012	0.015
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	44	61	84	98
Unit consumption of services per employee	toe/emp	n.a.	n.a.	0.14	0.19
Unit electricity consumption of services per employee	kWh/emp	n.a.	n.a.	974	1257
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.013	0.009	0.015
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	n.a.	0.10	0.19
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.018	0.019	0.020	0.024
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.040	0.043	0.054
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.01	0.02	0.02
Transformation sector					
Efficiency of total electricity generation	%	38.1	40.2	39.2	39.7
Rate of electricity transmission-distribution losses	%	12.3	13.0	16.1	13.4
Efficiency of thermal power plants	%	31.5	35.5	34.8	35.7
Share of renewables in electricity generating capacity	%	28.1	23.1	21.8	20.3
Share of renewables in gross electricity consumption	%	25.7	18.4	17.8	16.0

¹ CO₂ from fuel combustion

² incl. autoproducers

³ by main sector

⁴ Italic = 2007