

Botswana

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.178	0.135	0.108	0.080
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.069	0.090	0.076	0.060
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.248	0.197	0.243	0.107
Final energy intensity (at ppp)	koe/\$05p	0.151	0.096	0.086	0.063
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.119	0.093	0.109	0.060
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.182	0.138	0.171	0.076
Ratio final/primary intensity	%	84.7	71.1	79.9	79.7
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.315	0.247	0.179
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	2.15	2.42	2.28
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.083	0.039	0.038	0.028
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.866	0.355	0.033	0.026
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	0	0	0	0
Share of electric process in steel production	%	0	0	0	0
Share of industrial cogeneration in power generation	%	0	0	0	0
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.177	0.137	0.100
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	0.64	0.70	0.64
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0	0.023	0.024	0.022
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	n.a.	0.80
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	%	0	0	0	0
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.068	0.070	0.065
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	0.46	0.69	0.83
Households					
Average electricity consumption of households per capita	kWh/cap	26	58	119	334
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	n.a.	n.a.
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	n.a.	n.a.	n.a.	n.a.
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	n.a.	n.a.	n.a.
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.011	0.008	0.018	0.008
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	47	37	120	68
Unit consumption of services per employee	toe/emp	n.a.	0.11	0.32	0.25
Unit electricity consumption of services per employee	kWh/emp	n.a.	498	2121	2316
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.010	0.028	0.005
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	0.13	0.49	0.16
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0	0.023	0.028	0.054
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.070	0.085	0.109
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.02	0.02	0.02
Transformation sector					
Efficiency of total electricity generation	%	32.5	18.2	17.6	17.9
Rate of electricity transmission-distribution losses	%	0	0	11.7	5.6
Efficiency of thermal power plants	%	32.5	18.2	17.6	17.9
Share of renewables in electricity generating capacity	%	n.a.	n.a.	n.a.	n.a.
Share of renewables in gross electricity consumption	%	n.a.	n.a.	n.a.	n.a.

¹ CO₂ from fuel combustion

² incl. autoproducers

³ by main sector

⁴ Italic = 2007

GDP / PRICES	Units	1980	1990	2000	2008
GDP per capita (at ppp)	\$05p/cap	3383	6923	9961	12378
Average electricity price (at ppp)	c05p/kWh	n.a.	n.a.	n.a.	n.a.
Average price of motor fuels (at ppp)	\$05p/l	n.a.	n.a.	1.26	1.96