

# Brazil

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	0,150	0,154	0,163	0,165
Primary energy intensity excluding traditional fuels (ppp)	koe/\$95p	0,098	0,106	0,126	0,121
Primary energy intensity adjusted to EU structure (ppp)	koe/\$95p	0,151	0,162	0,165	0,166
Final energy intensity (at ppp)	koe/\$95p	0,124	0,121	0,128	0,131
Final energy intensity at 1995 GDP structure <sup>3</sup> (ppp)	koe/\$95p	0,123	0,124	0,130	0,133
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$95p	0,112	0,115	0,118	0,120
CO2 intensity (at ppp)	kCO2/\$95p	n.a.	0,217	0,261	0,251
CO2 emissions per capita	tCO2/cap	n.a.	1,27	1,70	1,71
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$95p	0,135	0,153	0,172	0,179
Energy intensity of manufacturing (at ppp)	koe/\$95p	0,178	0,215	0,274	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$95p	n.a.	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	0,59	0,62	0,56	0,41
CO2 intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO2/\$95p	n.a.	0,188	0,259	0,232
CO2 emissions of industry <sup>2</sup> per capita	tCO2/cap	n.a.	0,36	0,52	0,49
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$95p	0,035	0,038	0,043	0,043
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.	0,093	0,112	0,111
CO2 emissions of transport per capita	tCO2/cap	n.a.	0,54	0,73	0,75
<b>Residential, service and agriculture sectors</b>					
Energy intensity of households (to private consumption) (at ppp)	koe/\$95p	0,056	0,044	0,033	0,035
Average electricity consumption of households per capita	kWh/cap	191	326	480	449
Average electricity consumption per household	kWh/hh	905	1357	1888	1778
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	1987	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	0,012	0,015	0,017
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$95p	76	105	143	168
Unit consumption of services per employee	toe/emp	n.a.	0,13	0,18	0,16
Unit electricity consumption of services per employee	kWh/emp	n.a.	1164	1650	1563
Energy intensity of agriculture (to value added) (at ppp)	koe/\$95p	0,111	0,091	0,081	0,074
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$95p	n.a.	0,033	0,027	0,026
CO2 emissions of residential sector per household	tCO2/hh	n.a.	0,39	0,39	0,35
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$95p	n.a.	0,006	0,008	0,008
CO2 emissions of service sector per employee	tCO2/emp	n.a.	0,07	0,09	0,07
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$95p	n.a.	0,150	0,158	0,131
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0,07	0,08	0,08
<b>Transformation sector</b>					
Overall efficiency of energy transformations	%	87,0	87,0	85,5	84,9
Efficiency of total electricity generation	%	88,0	88,1	81,0	79,0
Rate of electricity transmission-distribution losses	%	11,8	14,2	18,2	16,6
Efficiency of thermal power plants	%	35,5	35,2	35,6	39,0
<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	%	6,4	20,4	14,0	15,0
Share of biomass in industry energy consumption	%	35,2	41,9	36,7	41,8
Share of renewables in electricity generating capacity	%	84,2	87,9	85,3	78,8
Share of renewables in gross electricity consumption	%	92,6	82,9	77,5	76,4

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

<sup>2</sup> incl. autoproducers

<sup>3</sup> by main sector

GDP / PRICES	units	1980	1990	2000	2005
GDP per capita (at ppp)	\$95p/cap	6152	5839	6540	6793
Average electricity price (at ppp)	c95p/kWh	n.a.	16,7	9,6	10,8
Average price of motor fuels (at ppp)	\$95p/l	0,92	0,95	0,66	0,94