

# World

Energy Efficiency/CO <sub>2</sub> <sup>1</sup> Indicators	Units	1980	1990	2000	<sup>4</sup> 2008
<b>Key indicators</b>					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.267	0.241	0.206	0.186
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.239	0.216	0.185	0.168
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.243	0.212	0.177	0.154
Final energy intensity (at ppp)	koe/\$05p	0.187	0.159	0.131	0.115
Final energy intensity at 2005 GDP structure <sup>3</sup> (ppp)	koe/\$05p	0.179	0.156	0.129	0.115
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.179	0.148	0.125	0.109
Ratio final/primary intensity	%	75.0	71.7	69.7	68.3
CO <sub>2</sub> intensity (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.561	0.469	0.432
CO <sub>2</sub> emissions per capita	tCO <sub>2</sub> /cap	n.a.	3.79	3.65	4.14
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.236	0.189	0.153	0.142
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.410	0.317	0.237	0.219
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	n.a.	0.50	0.46	0.43
Share of electric process in steel production	%	20.4	20.5	34.8	31.4
Share of industrial cogeneration in power generation	%	0	0	0	2.3
CO <sub>2</sub> intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.445	0.359	0.326
CO <sub>2</sub> emissions of industry <sup>2</sup> per capita	tCO <sub>2</sub> /cap	n.a.	0.86	0.76	0.86
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.040	0.037	0.034	0.030
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	%	0.2	0.5	0.7	2.6
CO <sub>2</sub> intensity of transport to GDP (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.108	0.099	0.085
CO <sub>2</sub> emissions of transport per capita	tCO <sub>2</sub> /cap	n.a.	0.73	0.77	0.81
<b>Households</b>					
Average electricity consumption of households per capita	kWh/cap	387	487	591	686
Average electricity consumption of electrified households	kWh/hh	n.a.	3189	3235	3492
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 <sup>2</sup> /1000inhab	0	0	10.0	32.6
CO <sub>2</sub> emissions of residential sector per household	tCO <sub>2</sub> /hh	n.a.	1.50	1.18	1.12
<b>Services</b>					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.031	0.024	0.022	0.020
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	92	108	118	121
Unit consumption of services per employee	toe/emp	n.a.	n.a.	0.66	0.63
Unit electricity consumption of services per employee	kWh/emp	n.a.	n.a.	3618	3825
CO <sub>2</sub> intensity of service sector (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.039	0.027	0.022
CO <sub>2</sub> emissions of service sector per employee	tCO <sub>2</sub> /emp	n.a.	n.a.	0.84	0.68
<b>Agriculture</b>					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.103	0.077	0.060	0.055
CO <sub>2</sub> intensity of agriculture (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.187	0.143	0.131
CO <sub>2</sub> emissions of agriculture sector per capita	tCO <sub>2</sub> /cap	n.a.	0.08	0.06	0.07
<b>Transformation sector</b>					
Efficiency of total electricity generation	%	43.5	37.1	38.8	39.0
Rate of electricity transmission-distribution losses	%	10.4	10.8	11.2	10.1
Efficiency of thermal power plants	%	n.a.	32.2	34.5	34.8
Share of renewables in electricity generating capacity	%	23.2	23.4	24.3	24.3
Share of renewables in gross electricity consumption	%	21.6	19.9	19.1	18.9

<sup>1</sup> CO<sub>2</sub> from fuel combustion

<sup>2</sup> incl. autoproducers

<sup>3</sup> by main sector

<sup>4</sup> Italic = 2007