

Germany

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2005
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$95p	0,279	0,221	0,172	0,166
Primary energy intensity excluding traditional fuels (ppp)	koe/\$95p	0,275	0,218	0,168	0,159
Primary energy intensity adjusted to EU structure (ppp)	koe/\$95p	0,232	0,192	0,156	0,155
Final energy intensity (at ppp)	koe/\$95p	0,183	0,141	0,111	0,111
Final energy intensity at 1995 GDP structure ³ (ppp)	koe/\$95p	0,176	0,137	0,112	0,113
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$95p	0,172	0,137	0,112	0,112
CO2 intensity (at ppp)	kCO2/\$95p	n.a.	0,578	0,403	0,386
CO2 emissions per capita	tCO2/cap	n.a.	11,83	9,81	9,72
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$95p	0,184	0,133	0,107	0,103
Energy intensity of manufacturing (at ppp)	koe/\$95p	0,230	0,168	0,138	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$95p	n.a.	n.a.	0,247	n.a.
Unit consumption of steel	toe/t	0,51	0,38	0,31	0,30
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$95p	n.a.	0,414	0,256	0,268
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	2,78	1,72	1,82
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$95p	0,037	0,037	0,034	0,030
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	0,97	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	0,05	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$95p	n.a.	0,099	0,088	0,077
CO2 emissions of transport per capita	tCO2/cap	n.a.	2,01	2,15	1,95
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$95p	0,090	0,069	0,057	0,066
Average electricity consumption of households per capita	kWh/cap	1469	1725	1568	1705
Average electricity consumption per household	kWh/hh	n.a.	n.a.	3381	3626
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	3381	3626
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	2080	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$95p	0,053	0,034	0,022	0,022
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$95p	86	88	87	86
Unit consumption of services per employee	toe/emp	n.a.	n.a.	1,04	1,13
Unit electricity consumption of services per employee	kWh/emp	n.a.	n.a.	4192	4399
Energy intensity of agriculture (to value added) (at ppp)	koe/\$95p	0,157	0,127	0,120	0,114
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$95p	n.a.	0,138	0,103	0,103
CO2 emissions of residential sector per household	tCO2/hh	n.a.	n.a.	3,10	3,11
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$95p	n.a.	0,082	0,037	0,038
CO2 emissions of service sector per employee	tCO2/emp	n.a.	n.a.	1,80	1,93
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$95p	n.a.	0,308	0,275	0,248
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0,09	0,08	0,07
Transformation sector					
Overall efficiency of energy transformations	%	72,5	70,1	71,9	75,0
Efficiency of total electricity generation	%	32,8	33,3	37,2	37,8
Rate of electricity transmission-distribution losses	%	4,5	4,3	4,4	5,4
Efficiency of thermal power plants	%	31,7	32,3	37,1	36,8
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	4,2	40,6	86,1
Share of biofuels in road transport energy consumption	%	0	0	0,4	2,5
Share of biomass in industry energy consumption	%	0,0	1,1	0,8	0
Share of renewables in electricity generating capacity	%	7,8	7,8	14,3	24,5
Share of renewables in gross electricity consumption	%	4,3	3,6	6,2	9,1

¹ CO2 from fuel combustion

² incl. autoproducers

³ by main sector

GDP / PRICES	units	1980	1990	2000	2005
GDP per capita (at ppp)	\$95p/cap	16532	20458	24337	25215
Average electricity price (at ppp)	c95p/kWh	9,9	11,2	7,1	9,3
Average price of motor fuels (at ppp)	\$95p/l	0,85	0,65	0,87	1,00