

Germany

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2007
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.238	0.189	0.147	0.129
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.235	0.187	0.144	0.122
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.195	0.161	0.130	0.121
Final energy intensity (at ppp)	koe/\$05p	0.156	0.120	0.094	0.089
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.149	0.116	0.094	0.089
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.146	0.115	0.093	0.086
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.494	0.345	0.305
CO2 emissions per capita	tCO2/cap	n.a.	11.84	9.82	9.49
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.161	0.116	0.091	0.086
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.206	0.151	0.117	0.107
Unit consumption of steel	toe/t	0.51	0.38	0.31	0.26
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	0.362	0.224	0.187
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	2.78	1.72	1.56
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.032	0.032	0.029	0.025
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	0.98	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	0.04	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.084	0.075	0.060
CO2 emissions of transport per capita	tCO2/cap	n.a.	2.01	2.15	1.86
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$05p	0.061	0.056	0.046	0.049
Average electricity consumption of households per capita	kWh/cap	1469	1725	1587	1722
Average electricity consumption per household	kWh/hh	n.a.	3927	3423	3548
Average electricity consumption of electrified households	kWh/hh	n.a.	3927	3423	3548
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	1956	2080	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.058	0.030	0.019	0.018
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$05p	75	77	82	82
Unit consumption of services per employee	toe/emp	n.a.	n.a.	1.07	1.01
Unit electricity consumption of services per employee	kWh/emp	n.a.	n.a.	4557	4596
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.137	0.111	0.105	0.085
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$05p	n.a.	0.112	0.084	0.078
CO2 emissions of residential sector per household	tCO2/hh	n.a.	3.62	3.10	2.95
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.072	0.032	0.029
CO2 emissions of service sector per employee	tCO2/emp	n.a.	n.a.	1.79	1.62
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.269	0.241	0.180
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.09	0.08	0.06
Transformation sector					
Overall efficiency of energy transformations	%	72.4	70.1	71.8	77.3
Efficiency of total electricity generation	%	33.1	33.3	37.5	38.5
Rate of electricity transmission-distribution losses	%	4.5	4.3	5.9	4.5
Efficiency of thermal power plants	%	32.0	32.3	37.6	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	115.1
Share of biofuels in road transport energy consumption	%	0	0	0.4	7.5
Share of biomass in industry energy consumption	%	0.0	1.1	0.8	1.8
Share of renewables in electricity generating capacity	%	8.3	8.2	14.7	29.2
Share of renewables in gross electricity consumption	%	5.4	4.5	7.8	15.8

¹ CO2 from fuel combustion

² incl. autoproducers

³ by main sector

GDP / PRICES	units	1980	1990	2000	2007
GDP per capita (at ppp)	\$05p/cap	19351	23945	28486	31119
Average electricity price (at ppp)	c05p/kWh	12.8	14.3	9.0	12.6
Average price of motor fuels (at ppp)	\$05p/l	1.10	0.83	1.07	1.30