

Europe

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.197	0.171	0.143	0.127
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.192	0.165	0.137	0.119
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.179	0.155	0.129	0.113
Final energy intensity (at ppp)	koe/\$05p	0.134	0.110	0.092	0.082
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.128	0.106	0.091	0.082
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.132	0.108	0.091	0.080
Ratio final/primary intensity	%	73.9	70.4	70.8	71.1
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.415	0.321	0.275
CO2 emissions per capita	tCO2/cap	n.a.	7.72	7.10	6.99
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.185	0.137	0.110	0.093
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.256	0.196	0.155	0.129
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	n.a.	0.266	0.202
Unit consumption of steel	toe/t	0.75	0.44	0.38	0.31
Share of electric process in steel production	%	16.8	22.9	43.8	48.4
Share of industrial cogeneration in power generation	%	0	0	0	5.0
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	0.341	0.248	0.203
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	1.75	1.40	1.29
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.027	0.027	0.026	0.024
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	0.0	0.2	2.9
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.078	0.074	0.068
CO2 emissions of transport per capita	tCO2/cap	n.a.	1.46	1.64	1.73
Households					
Average electricity consumption of households per capita	kWh/cap	937	1211	1406	1544
Average electricity consumption of electrified households	kWh/hh	n.a.	3619	3946	4100
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	0	0	31.5	70.8
CO2 emissions of residential sector per household	tCO2/hh	n.a.	2.85	2.42	2.15
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.027	0.020	0.017	0.016
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	69	81	88	91
Unit consumption of services per employee	toe/emp	n.a.	0.90	0.82	0.83
Unit electricity consumption of services per employee	kWh/emp	n.a.	3658	4279	4746
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.036	0.022	0.019
CO2 emissions of service sector per employee	tCO2/emp	n.a.	1.61	1.06	0.97
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.083	0.102	0.094	0.090
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.257	0.232	0.215
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.16	0.15	0.14
Transformation sector					
Efficiency of total electricity generation	%	38.0	36.9	40.6	41.5
Rate of electricity transmission-distribution losses	%	9.4	8.8	9.7	8.3
Efficiency of thermal power plants	%	32.4	32.3	37.2	38.2
Share of renewables in electricity generating capacity	%	26.0	26.4	28.3	33.0
Share of renewables in gross electricity consumption	%	21.9	18.2	20.5	22.1

¹ CO2 from fuel combustion

² incl. autoproducers

³ by main sector

⁴ Italic = 2007