

European Union (27)

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.199	0.171	0.143	0.125
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.196	0.166	0.137	0.118
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.180	0.155	0.128	0.112
Final energy intensity (at ppp)	koe/\$05p	0.135	0.109	0.091	0.080
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.128	0.105	0.090	0.081
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.132	0.109	0.091	0.080
Ratio final/primary intensity	%	73.5	69.9	70.5	71.0
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.418	0.319	0.271
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	8.52	7.84	7.65
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.184	0.138	0.109	0.092
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.255	0.198	0.154	0.129
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	n.a.	0.264	0.199
Unit consumption of steel	toe/t	0.72	0.45	0.38	0.33
Share of electric process in steel production	%	17.1	21.1	41.6	43.4
Share of industrial cogeneration in power generation	%	1.5	3.2	4.3	5.5
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.346	0.244	0.204
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	1.93	1.51	1.41
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.026	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	0.3	3.2
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.078	0.074	0.068
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	1.59	1.83	1.91
Households					
Average electricity consumption of households per capita	kWh/cap	977	1283	1480	1634
Average electricity consumption of electrified households	kWh/hh	n.a.	3584	3869	4030
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	2058	2307	2506
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	5.2	20.6	55.3
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	2.94	2.51	2.22
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	64	78	86	88
Unit consumption of services per employee	toe/emp	n.a.	1.01	0.94	0.91
Unit electricity consumption of services per employee	kWh/emp	n.a.	3923	4745	5107
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.037	0.023	0.019
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	1.86	1.24	1.08
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.108	0.126	0.108	0.100
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.313	0.263	0.235
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.17	0.15	0.14
Transformation sector					
Efficiency of total electricity generation	%	36.4	35.4	39.1	40.0
Rate of electricity transmission-distribution losses	%	9.2	8.6	8.9	7.5
Efficiency of thermal power plants	%	32.5	32.3	37.5	38.1
Share of renewables in electricity generating capacity	%	20.5	20.8	22.9	28.8
Share of renewables in gross electricity consumption	%	16.2	12.7	15.1	17.7

¹ CO₂ from fuel combustion

² incl. autoproducers

³ by main sector

⁴ Italic = 2007