

Spain

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.118	0.118	0.121	0.109
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.118	0.112	0.117	0.104
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.104	0.102	0.105	0.099
Final energy intensity (at ppp)	koe/\$05p	0.079	0.073	0.076	0.073
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.073	0.071	0.075	0.073
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.077	0.071	0.074	0.070
Ratio final/primary intensity	%	73.2	68.5	70.7	72.7
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.267	0.281	0.247
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	5.25	7.03	6.97
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.122	0.094	0.095	0.082
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.187	0.146	0.146	0.137
Energy intensity of chemicals industry (at ppp)	koe/\$05p	0.348	0.231	0.237	0.254
Unit consumption of steel	toe/t	0.40	0.30	0.25	0.22
Share of electric process in steel production	%	0	56.8	73.4	78.2
Share of industrial cogeneration in power generation	%	0.2	1.9	11.6	10.3
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.195	0.227	0.187
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	1.06	1.50	1.34
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.026	0.028	0.030	0.029
Average consumption of road transport per equivalent car	toe/car equiv.	0.71	0.75	0.75	0.72
Unit consumption of goods per ton km	toe/tkm	0.05	0.04	0.04	0.05
Share of biofuels in road transport energy consumption	%	0	0	0.3	1.9
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.082	0.089	0.085
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	1.61	2.23	2.40
Households					
Average electricity consumption of households per capita	kWh/cap	523	778	1083	1581
Average electricity consumption of electrified households	kWh/hh	1965	2676	3353	4380
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	1752	2076	2248
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	1.0	4.9	28.2
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	1.12	1.28	1.24
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.007	0.008	0.011	0.012
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	37	55	83	101
Unit consumption of services per employee	toe/emp	0.42	0.48	0.69	0.66
Unit electricity consumption of services per employee	kWh/emp	2376	3524	5172	5623
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.008	0.011	0.008
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	0.52	0.69	0.47
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.098	0.057	0.064	0.088
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.143	0.161	0.210
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.11	0.16	0.15
Transformation sector					
Efficiency of total electricity generation	%	44.6	38.8	42.0	48.3
Rate of electricity transmission-distribution losses	%	11.2	11.3	11.6	6.3
Efficiency of thermal power plants	%	37.0	35.6	40.6	47.5
Share of renewables in electricity generating capacity	%	44.2	37.1	37.7	41.3
Share of renewables in gross electricity consumption	%	28.2	17.7	17.2	20.2

¹ CO₂ from fuel combustion

² incl. autoproducers

³ by main sector

⁴ Italic = 2007

GDP / PRICES	Units	1980	1990	2000	2008
GDP per capita (at ppp)	\$05p/cap	15373	19762	25119	28442
Average electricity price (at ppp)	c05p/kWh	12.6	17.4	11.2	13.2
Average price of motor fuels (at ppp)	\$05p/l	1.34	0.96	1.13	1.32