

Romania

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2005
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$95p	0,486	0,424	0,291	0,232
Primary energy intensity excluding traditional fuels (ppp)	koe/\$95p	0,479	0,420	0,268	0,211
Primary energy intensity adjusted to EU structure (ppp)	koe/\$95p	0,401	0,338	0,207	0,171
Final energy intensity (at ppp)	koe/\$95p	0,365	0,295	0,177	0,150
Final energy intensity at 1995 GDP structure ³ (ppp)	koe/\$95p	0,332	0,294	0,173	0,143
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$95p	0,297	0,241	0,148	0,123
CO2 intensity (at ppp)	kCO2/\$95p	n.a.	1,098	0,684	0,546
CO2 emissions per capita	tCO2/cap	n.a.	7,02	3,81	4,15
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$95p	0,679	0,507	0,223	0,187
Energy intensity of manufacturing (at ppp)	koe/\$95p	0,898	0,670	0,536	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$95p	n.a.	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	n.a.	0,70	0,61	0,61
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$95p	n.a.	1,156	0,469	0,390
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	2,55	0,86	0,98
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$95p	0,019	0,030	0,028	0,029
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	2,79	0,46	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	n.a.	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$95p	n.a.	0,084	0,081	0,084
CO2 emissions of transport per capita	tCO2/cap	n.a.	0,54	0,45	0,64
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$95p	0,086	0,109	0,090	0,062
Average electricity consumption of households per capita	kWh/cap	220	231	341	387
Average electricity consumption per household	kWh/hh	n.a.	n.a.	968	1054
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	n.a.	n.a.
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	n.a.	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$95p	0,056	0,007	0,011	0,017
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$95p	85	81	70	51
Unit consumption of services per employee	toe/emp	0,96	0,14	0,19	0,34
Unit electricity consumption of services per employee	kWh/emp	1459	1578	1176	1010
Energy intensity of agriculture (to value added) (at ppp)	koe/\$95p	0,012	0,100	0,022	0,008
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$95p	n.a.	0,097	0,071	0,053
CO2 emissions of residential sector per household	tCO2/hh	n.a.	n.a.	0,84	0,89
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$95p	n.a.	0,001	0,013	0,028
CO2 emissions of service sector per employee	tCO2/emp	n.a.	0,01	0,21	0,55
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$95p	n.a.	0,244	0,056	0,020
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0,24	0,04	0,02
Transformation sector					
Overall efficiency of energy transformations	%	79,9	71,9	65,4	68,3
Efficiency of total electricity generation	%	37,5	22,7	33,1	37,7
Rate of electricity transmission-distribution losses	%	6,0	9,2	12,8	10,4
Efficiency of thermal power plants	%	32,7	19,4	25,2	27,9
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	n.a.	n.a.	n.a.	n.a.
Share of biofuels in road transport energy consumption	%	0	0	0	0
Share of biomass in industry energy consumption	%	0	0	3,3	3,6
Share of renewables in electricity generating capacity	%	21,4	25,4	37,3	41,2
Share of renewables in gross electricity consumption	%	18,6	15,5	28,8	35,9

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	6225	6398	5573	7608
Average electricity price (at ppp)	c95p/kWh	n.a.	1,5	14,6	20,3
Average price of motor fuels (at ppp)	\$95p/l	n.a.	1,85	1,45	2,19