

Romania

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2007
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.408	0.356	0.244	0.178
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.402	0.353	0.225	0.162
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.421	0.343	0.194	0.139
Final energy intensity (at ppp)	koe/\$05p	0.364	0.252	0.152	0.110
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.293	0.253	0.153	0.109
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.315	0.244	0.139	0.099
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.923	0.575	0.420
CO2 emissions per capita	tCO2/cap	n.a.	7.01	3.81	4.37
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.834	0.587	0.258	0.175
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.831	0.584	0.468	0.192
Unit consumption of steel	toe/t	n.a.	0.70	0.62	0.51
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	1.337	0.543	0.367
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	2.55	0.86	0.90
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.016	0.025	0.024	0.021
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	0.55	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	0.07	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.071	0.068	0.062
CO2 emissions of transport per capita	tCO2/cap	n.a.	0.54	0.45	0.65
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$05p	0.075	0.094	0.078	0.045
Average electricity consumption of households per capita	kWh/cap	220	231	341	468
Average electricity consumption per household	kWh/hh	n.a.	n.a.	1057	1386
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.	834	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.034	0.005	0.007	0.017
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$05p	51	54	46	40
Unit consumption of services per employee	toe/emp	0.98	0.13	0.17	0.55
Unit electricity consumption of services per employee	kWh/emp	1478	1510	1084	1247
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.017	0.142	0.032	0.013
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$05p	n.a.	0.084	0.061	0.037
CO2 emissions of residential sector per household	tCO2/hh	n.a.	n.a.	0.91	0.91
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.000	0.008	0.029
CO2 emissions of service sector per employee	tCO2/emp	n.a.	0.01	0.20	0.91
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.347	0.080	0.032
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.24	0.04	0.03
Transformation sector					
Overall efficiency of energy transformations	%	91.2	71.9	65.5	64.8
Efficiency of total electricity generation	%	44.2	22.7	33.1	34.6
Rate of electricity transmission-distribution losses	%	6.0	9.2	12.8	10.7
Efficiency of thermal power plants	%	39.1	19.4	25.2	27.4
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0	0	3.2
Share of biofuels in road transport energy consumption	%	n.a.	n.a.	n.a.	n.a.
Share of biomass in industry energy consumption	%	0	0	3.3	4.1
Share of renewables in electricity generating capacity	%	21.4	25.4	37.3	39.4
Share of renewables in gross electricity consumption	%	18.6	15.5	28.8	27.0

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	7398	7603	6622	10415
Average electricity price (at ppp)	c05p/kWh	n.a.	1.7	15.7	18.7
Average price of motor fuels (at ppp)	\$05p/l	n.a.	2.32	1.55	1.96