

Bulgaria

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.546	0.427	0.335	0.231
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.542	0.424	0.325	0.222
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.375	0.256	0.206	0.147
Final energy intensity (at ppp)	koe/\$05p	0.370	0.242	0.151	0.108
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.321	0.189	0.148	0.108
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.275	0.179	0.145	0.105
Ratio final/primary intensity	%	70.2	61.9	51.8	51.6
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	1.103	0.787	0.587
CO2 emissions per capita	tCO2/cap	n.a.	8.40	5.45	6.65
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.546	0.414	0.260	0.179
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.841	0.614	0.410	0.266
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	1.90	1.29	1.26
Unit consumption of steel	toe/t	n.a.	0.66	0.42	0.65
Share of electric process in steel production	%	0	0	29.8	67.7
Share of industrial cogeneration in power generation	%	0	9.2	4.5	4.1
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	0.593	0.703	0.422
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	1.51	1.19	1.16
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.070	0.034	0.031	0.027
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	0.84	0.56	0.65
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	0.4
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.096	0.090	0.078
CO2 emissions of transport per capita	tCO2/cap	n.a.	0.73	0.62	0.88
Households					
Average electricity consumption of households per capita	kWh/cap	772	1201	1223	1256
Average electricity consumption of electrified households	kWh/hh	n.a.	3460	3437	3163
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	2051	2092	1806
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0	0	8.2
CO2 emissions of residential sector per household	tCO2/hh	n.a.	1.03	0.42	0.34
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.013	0.009	0.024	0.020
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	135	92	186	161
Unit consumption of services per employee	toe/emp	0.26	0.22	0.44	0.45
Unit electricity consumption of services per employee	kWh/emp	2738	2384	3476	3577
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.002	0.012	0.007
CO2 emissions of service sector per employee	tCO2/emp	n.a.	0.05	0.22	0.15
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.094	0.111	0.052	0.048
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.298	0.143	0.131
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.18	0.11	0.09
Transformation sector					
Efficiency of total electricity generation	%	38.1	25.9	31.5	31.1
Rate of electricity transmission-distribution losses	%	11.2	13.5	26.6	16.1
Efficiency of thermal power plants	%	36.2	21.9	27.5	28.0
Share of renewables in electricity generating capacity	%	21.0	17.3	18.7	24.5
Share of renewables in gross electricity consumption	%	10.7	4.5	7.2	6.3

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	5836	7536	6848	11259
Average electricity price (at ppp)	c05p/kWh	0	0	0	15.0
Average price of motor fuels (at ppp)	\$05p/l	0	0	2.52	n.a.