

Czech Republic

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2007
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.350	0.286	0.231	0.191
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.350	0.286	0.227	0.182
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.246	0.239	0.176	0.144
Final energy intensity (at ppp)	koe/\$05p	0.254	0.194	0.136	0.110
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.198	0.182	0.134	0.109
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.184	0.170	0.126	0.103
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.919	0.690	0.516
CO2 emissions per capita	tCO2/cap	n.a.	15.20	11.81	12.03
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.229	0.250	0.168	0.117
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.383	0.420	0.230	0.151
Unit consumption of steel	toe/t	n.a.	0.55	0.50	0.36
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	0.691	0.478	0.312
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	4.68	2.78	2.51
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.018	0.017	0.025	0.028
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	0.70	0.77	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	0.03	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.042	0.068	0.076
CO2 emissions of transport per capita	tCO2/cap	n.a.	0.70	1.16	1.78
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$05p	0.108	0.098	0.060	0.053
Average electricity consumption of households per capita	kWh/cap	603	929	1345	1472
Average electricity consumption per household	kWh/hh	n.a.	2391	3259	3411
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.	839	1591	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.052	0.040	0.035	0.025
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$05p	151	70	144	119
Unit consumption of services per employee	toe/emp	0.84	1.37	1.11	1.04
Unit electricity consumption of services per employee	kWh/emp	2430	2415	4571	4929
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.574	0.287	0.106	0.063
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$05p	n.a.	0.270	0.092	0.067
CO2 emissions of residential sector per household	tCO2/hh	n.a.	5.32	1.92	1.77
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.094	0.041	0.026
CO2 emissions of service sector per employee	tCO2/emp	n.a.	3.24	1.31	1.06
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.784	0.275	0.145
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.36	0.16	0.12
Transformation sector					
Overall efficiency of energy transformations	%	75.1	71.6	64.7	62.7
Efficiency of total electricity generation	%	35.4	28.6	31.4	32.1
Rate of electricity transmission-distribution losses	%	7.4	6.4	6.7	6.4
Efficiency of thermal power plants	%	34.3	27.1	30.3	30.7
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0	1.3	31.6
Share of biofuels in road transport energy consumption	%	0	0	1.6	0.5
Share of biomass in industry energy consumption	%	0	0	1.4	5.5
Share of renewables in electricity generating capacity	%	9.3	6.5	14.0	13.2
Share of renewables in gross electricity consumption	%	4.7	2.3	4.8	5.4

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	13914	16537	17110	23325
Average electricity price (at ppp)	c05p/kWh	n.a.	n.a.	14.6	17.3
Average price of motor fuels (at ppp)	\$05p/l	n.a.	n.a.	2.11	1.94