

Japan

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2005
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$95p	0,192	0,168	0,174	0,163
Primary energy intensity excluding traditional fuels (ppp)	koe/\$95p	0,192	0,166	0,172	0,162
Primary energy intensity adjusted to EU structure (ppp)	koe/\$95p	0,142	0,135	0,139	0,129
Final energy intensity (at ppp)	koe/\$95p	0,117	0,105	0,105	0,099
Final energy intensity at 1995 GDP structure ³ (ppp)	koe/\$95p	0,112	0,101	0,106	0,101
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$95p	0,105	0,096	0,100	0,093
CO2 intensity (at ppp)	kCO2/\$95p	n.a.	0,384	0,367	0,355
CO2 emissions per capita	tCO2/cap	n.a.	8,27	8,85	9,05
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$95p	0,164	0,120	0,114	0,108
Energy intensity of manufacturing (at ppp)	koe/\$95p	0,273	0,183	0,160	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$95p	0,312	0,336	0,215	n.a.
Unit consumption of steel	toe/t	0,39	0,36	0,38	0,37
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$95p	n.a.	0,302	0,303	0,297
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	2,35	2,35	2,44
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$95p	0,031	0,028	0,031	0,029
Average consumption of road transport per equivalent car	toe/car equiv.	14,55	14,55	0,56	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.	0,078	0,084	0,078
CO2 emissions of transport per capita	tCO2/cap	n.a.	1,68	2,02	1,99
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$95p	0,026	0,027	0,029	0,027
Average electricity consumption of households per capita	kWh/cap	994	1491	2032	2095
Average electricity consumption per household	kWh/hh	3404	4528	5512	5669
Average electricity consumption of electrified households	kWh/hh	3404	4528	5512	5669
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	0,018	0,025	0,028	0,026
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$95p	48	109	131	126
Unit consumption of services per employee	toe/emp	0,66	1,08	1,30	1,20
Unit electricity consumption of services per employee	kWh/emp	1713	4809	6185	5792
Energy intensity of agriculture (to value added) (at ppp)	koe/\$95p	0,065	0,187	0,237	0,261
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$95p	n.a.	0,039	0,041	0,036
CO2 emissions of residential sector per household	tCO2/hh	n.a.	1,39	1,47	1,35
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$95p	n.a.	0,043	0,046	0,043
CO2 emissions of service sector per employee	tCO2/emp	n.a.	1,90	2,17	1,98
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$95p	n.a.	0,561	0,705	0,789
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0,27	0,24	0,24
Transformation sector					
Overall efficiency of energy transformations	%	71,8	72,3	70,1	70,4
Efficiency of total electricity generation	%	42,8	42,9	42,0	42,2
Rate of electricity transmission-distribution losses	%	4,4	4,8	4,4	4,4
Efficiency of thermal power plants	%	40,0	43,2	44,0	44,0
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	4,9	48,1	52,3	54,6
Share of biofuels in road transport energy consumption	%	0	0	0	0
Share of biomass in industry energy consumption	%	0	2,2	2,1	2,1
Share of renewables in electricity generating capacity	%	21,0	19,8	18,5	18,0
Share of renewables in gross electricity consumption	%	16,1	11,6	9,4	8,7

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	15481	21541	24102	25506
Average electricity price (at ppp)	c95p/kWh	16,1	12,4	10,7	6,2
Average price of motor fuels (at ppp)	\$95p/l	1,06	0,66	0,55	0,44