

Finland

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.285	0.243	0.226	0.195
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.245	0.204	0.179	0.154
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.298	0.254	0.212	0.172
Final energy intensity (at ppp)	koe/\$05p	0.213	0.181	0.163	0.142
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.221	0.191	0.167	0.138
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.219	0.178	0.149	0.122
Ratio final/primary intensity	%	79.6	79.7	75.4	76.7
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.448	0.358	0.309
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	10.43	9.75	10.32
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.276	0.307	0.274	0.207
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.422	0.472	0.340	0.246
Energy intensity of chemicals industry (at ppp)	koe/\$05p	0.799	0.811	0.370	0.609
Unit consumption of steel	toe/t	0.48	0.45	0.33	0.24
Share of electric process in steel production	%	15.4	15.9	23.6	28.7
Share of industrial cogeneration in power generation	%	16.0	14.4	15.3	10.1
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.461	0.284	0.212
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	2.80	2.29	2.37
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.032	0.034	0.029	0.026
Average consumption of road transport per equivalent car	toe/car equiv.	1.28	1.15	1.04	0.95
Unit consumption of goods per ton km	toe/tkm	n.a.	0.04	0.05	0.06
Share of biofuels in road transport energy consumption	%	0	0	0	0.7
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.100	0.085	0.075
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	2.33	2.31	2.50
Households					
Average electricity consumption of households per capita	kWh/cap	1685	2928	3505	4056
Average electricity consumption of electrified households	kWh/hh	4521	7169	7911	8604
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	3963	4741
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0.1	1.3	5.1
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	3.17	1.02	0.85
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.010	0.014	0.020	0.020
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	116	159	169	179
Unit consumption of services per employee	toe/emp	0.38	0.59	1.00	1.03
Unit electricity consumption of services per employee	kWh/emp	4435	6820	8562	9191
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	n.a.	0.014	0.012
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	n.a.	0.70	0.61
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.123	0.188	0.168	0.149
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.430	0.408	0.426
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.42	0.34	0.34
Transformation sector					
Efficiency of total electricity generation	%	47.8	41.7	42.7	41.1
Rate of electricity transmission-distribution losses	%	7.6	5.4	4.2	4.4
Efficiency of thermal power plants	%	43.8	39.7	40.5	36.4
Share of renewables in electricity generating capacity	%	17.0	29.7	27.0	28.4
Share of renewables in gross electricity consumption	%	25.1	29.5	33.7	34.8

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	18169	23463	27463	33472
Average electricity price (at ppp)	c05p/kWh	9.1	6.3	5.9	7.9
Average price of motor fuels (at ppp)	\$05p/l	0.98	0.77	1.07	1.27