

# Luxembourg

Energy Efficiency/CO <sub>2</sub> <sup>1</sup> Indicators	Units	1980	1990	2000	<sup>4</sup> 2008
<b>Key indicators</b>					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.341	0.203	0.120	0.115
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.339	0.201	0.119	0.113
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.545	0.351	0.208	0.191
Final energy intensity (at ppp)	koe/\$05p	0.313	0.190	0.118	0.109
Final energy intensity at 2005 GDP structure <sup>3</sup> (ppp)	koe/\$05p	0.244	0.168	0.117	0.111
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.400	0.246	0.147	0.136
Ratio final/primary intensity	%	93.0	94.5	98.0	95.1
CO <sub>2</sub> intensity (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.485	0.288	0.290
CO <sub>2</sub> emissions per capita	tCO <sub>2</sub> /cap	n.a.	21.32	18.01	22.13
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	1.033	0.557	0.209	0.186
Energy intensity of manufacturing (at ppp)	koe/\$05p	1.680	0.913	0.332	0.315
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	1.147	0.301	0.230
Unit consumption of steel	toe/t	0.42	0.37	0.13	0.15
Share of electric process in steel production	%	n.a.	n.a.	100.0	100.0
Share of industrial cogeneration in power generation	%	0	0	19.9	9.4
CO <sub>2</sub> intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	1.357	0.384	0.323
CO <sub>2</sub> emissions of industry <sup>2</sup> per capita	tCO <sub>2</sub> /cap	n.a.	11.13	3.95	3.66
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.042	0.052	0.057	0.061
Average consumption of road transport per equivalent car	toe/car equiv.	9.51	3.65	4.31	4.83
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	0.8
CO <sub>2</sub> intensity of transport to GDP (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.155	0.170	0.184
CO <sub>2</sub> emissions of transport per capita	tCO <sub>2</sub> /cap	n.a.	6.80	10.65	14.00
<b>Households</b>					
Average electricity consumption of households per capita	kWh/cap	1274	1506	1495	1580
Average electricity consumption of electrified households	kWh/hh	n.a.	3947	3840	3889
Households consumption for electrical appliances and lighting	kWh/hh	n.a.	n.a.	n.a.	n.a.
Per capita installed capacity of solar water heaters	m <sup>2</sup> /1000inhab	0	0	0	23.7
CO <sub>2</sub> emissions of residential sector per household	tCO <sub>2</sub> /hh	n.a.	8.77	8.33	6.61
<b>Services</b>					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.006	0.005	0.004	0.004
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	75	54	52	49
Unit consumption of services per employee	toe/emp	0.54	0.48	0.49	0.46
Unit electricity consumption of services per employee	kWh/emp	6302	5564	5647	5330
CO <sub>2</sub> intensity of service sector (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	n.a.	n.a.	n.a.
CO <sub>2</sub> emissions of service sector per employee	tCO <sub>2</sub> /emp	n.a.	n.a.	n.a.	n.a.
<b>Agriculture</b>					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.158	0.082	0.078	0.173
CO <sub>2</sub> intensity of agriculture (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.113	0.130	0.402
CO <sub>2</sub> emissions of agriculture sector per capita	tCO <sub>2</sub> /cap	n.a.	0.04	0.05	0.11
<b>Transformation sector</b>					
Efficiency of total electricity generation	%	34.3	48.2	66.4	55.9
Rate of electricity transmission-distribution losses	%	0.9	2.5	2.6	1.7
Efficiency of thermal power plants	%	27.8	27.2	32.5	47.2
Share of renewables in electricity generating capacity	%	87.8	91.9	94.3	74.1
Share of renewables in gross electricity consumption	%	28.8	62.2	80.4	32.4

<sup>1</sup> CO<sub>2</sub> from fuel combustion

<sup>2</sup> incl. autoproducers

<sup>3</sup> by main sector

<sup>4</sup> Italic = 2007

GDP / PRICES	Units	1980	1990	2000	2008
GDP per capita (at ppp)	\$05p/cap	27152	42066	60177	70981
Average electricity price (at ppp)	c05p/kWh	8.9	10.2	8.0	8.6
Average price of motor fuels (at ppp)	\$05p/l	0.90	0.67	0.90	1.12