

Australia

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.241	0.217	0.195	0.176
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.228	0.207	0.186	0.168
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.199	0.182	0.162	0.137
Final energy intensity (at ppp)	koe/\$05p	0.158	0.134	0.119	0.101
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.143	0.128	0.117	0.102
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.147	0.128	0.114	0.097
Ratio final/primary intensity	%	69.9	66.3	65.1	60.7
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.641	0.597	0.560
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	15.03	17.26	18.68
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.217	0.168	0.162	0.143
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.380	0.336	0.351	0.324
Energy intensity of chemicals industry (at ppp)	koe/\$05p	0.455	0.376	0.408	0.270
Unit consumption of steel	toe/t	0.65	0.52	0.50	0.35
Share of electric process in steel production	%	0	7.8	15.5	19.2
Share of industrial cogeneration in power generation	%	0	0.4	3.5	2.5
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.373	0.336	0.290
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	2.65	2.70	2.57
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.058	0.052	0.046	0.038
Average consumption of road transport per equivalent car	toe/car equiv.	2.10	1.16	1.13	1.01
Unit consumption of goods per ton km	toe/tkm	0.08	0.06	0.05	0.05
Share of biofuels in road transport energy consumption	%	0	0	0	0.5
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.151	0.131	0.108
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	3.54	3.80	3.62
Households					
Average electricity consumption of households per capita	kWh/cap	1972	2259	2546	3106
Average electricity consumption of electrified households	kWh/hh	6402	6380	6767	7896
Households consumption for electrical appliances and lighting	kWh/hh	0	3195	4015	n.a.
Per capita installed capacity of solar water heaters	m ² /1000inhab	0	0	0	81.8
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	0.93	0.97	0.86
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.015	0.015	0.015	0.014
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	99	119	124	114
Unit consumption of services per employee	toe/emp	0.38	0.63	0.76	0.75
Unit electricity consumption of services per employee	kWh/emp	2441	4914	6266	6296
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.013	0.011	0.010
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	0.53	0.53	0.53
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.108	0.110	0.098	0.135
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.283	0.254	0.381
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.20	0.22	0.29
Transformation sector					
Efficiency of total electricity generation	%	35.0	37.3	36.6	34.8
Rate of electricity transmission-distribution losses	%	12.4	8.7	9.3	6.8
Efficiency of thermal power plants	%	31.6	34.9	34.6	33.4
Share of renewables in electricity generating capacity	%	25.2	23.6	22.0	20.7
Share of renewables in gross electricity consumption	%	14.7	10.0	8.8	7.1

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	19568	23449	28926	33369
Average electricity price (at ppp)	c05p/kWh	7.3	7.5	7.5	7.9
Average price of motor fuels (at ppp)	\$05p/l	0.69	0.66	0.74	0.95