

Saudi Arabia

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.092	0.186	0.253	0.302
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.092	0.186	0.253	0.302
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.030	0.104	0.114	0.140
Final energy intensity (at ppp)	koe/\$05p	0.062	0.086	0.097	0.114
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.021	0.061	0.063	0.078
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.022	0.073	0.080	0.099
Ratio final/primary intensity	%	71.0	65.6	55.9	60.2
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.509	0.606	0.679
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	9.69	11.94	15.02
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Energy intensity of manufacturing (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Energy intensity of chemicals industry (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Unit consumption of steel	toe/t	n.a.	n.a.	n.a.	n.a.
Share of electric process in steel production	%	n.a.	100	100	100
Share of industrial cogeneration in power generation	%	0	0	0	0
CO ₂ intensity of industry ² (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	n.a.	n.a.	n.a.
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	2.82	3.29	4.30
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.019	0.052	0.049	0.059
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	n.a.	2.56
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
CO ₂ intensity of transport to GDP (at ppp)	kCO ₂ /\$05p	n.a.	0.155	0.145	0.175
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	2.95	2.86	3.88
Households					
Average electricity consumption of households per capita	kWh/cap	0	1768	2714	3899
Average electricity consumption of electrified households	kWh/hh	n.a.	n.a.	16942	20874
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 ² /1000inhab	n.a.	n.a.	n.a.	n.a.
CO ₂ emissions of residential sector per household	tCO ₂ /hh	n.a.	1.09	0.95	0.89
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	n.a.	n.a.	n.a.	n.a.
Unit consumption of services per employee	toe/emp	0.90	0.48	0.51	0.67
Unit electricity consumption of services per employee	kWh/emp	10102	5526	5907	7798
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	n.a.	n.a.	n.a.
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	n.a.	n.a.	n.a.
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	n.a.	n.a.	n.a.	n.a.
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	n.a.	n.a.	n.a.
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	n.a.	n.a.	n.a.
Transformation sector					
Efficiency of total electricity generation	%	19.4	26.9	29.0	32.5
Rate of electricity transmission-distribution losses	%	7.9	9.0	10.0	10.9
Efficiency of thermal power plants	%	19.4	26.9	29.0	32.5
Share of renewables in electricity generating capacity	%	n.a.	n.a.	n.a.	n.a.
Share of renewables in gross electricity consumption	%	n.a.	n.a.	n.a.	n.a.

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	34599	19021	19716	22110
Average electricity price (at ppp)	c05p/kWh	n.a.	3.0	2.1	n.a.
Average price of motor fuels (at ppp)	\$05p/l	0.07	n.a.	0.28	0.17