

Pakistan

Energy Efficiency/CO ₂ ¹ Indicators	Units	1980	1990	2000	⁴ 2008
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.252	0.236	0.236	0.207
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.110	0.133	0.145	0.136
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.255	0.250	0.228	0.197
Final energy intensity (at ppp)	koe/\$05p	0.217	0.189	0.180	0.160
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.207	0.200	0.185	0.163
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.187	0.175	0.161	0.140
Ratio final/primary intensity	%	90.5	85.0	81.0	81.5
CO ₂ intensity (at ppp)	kCO ₂ /\$05p	n.a.	0.316	0.358	0.344
CO ₂ emissions per capita	tCO ₂ /cap	n.a.	0.53	0.69	0.84
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.243	0.214	0.197	0.193
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.390	0.329	0.313	0.265
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.	0	10.5	17.5
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.	0.470	0.426	0.478
CO ₂ emissions of industry ² per capita	tCO ₂ /cap	n.a.	0.17	0.18	0.30
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.022	0.024	0.030	0.023
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	4.85	1.72
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.	0.073	0.090	0.070
CO ₂ emissions of transport per capita	tCO ₂ /cap	n.a.	0.12	0.17	0.17
Households					
Average electricity consumption of households per capita	kWh/cap	28	87	165	202
Average electricity consumption of electrified households	kWh/hh	n.a.	1161	2119	2391
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.	0.46	0.46	0.51
Services					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.020	0.010	0.010	0.010
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	42	49	52	51
Unit consumption of services per employee	toe/emp	0.11	0.08	0.08	0.08
Unit electricity consumption of services per employee	kWh/emp	242	395	418	430
CO ₂ intensity of service sector (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.015	0.015	0.014
CO ₂ emissions of service sector per employee	tCO ₂ /emp	n.a.	0.12	0.12	0.12
Agriculture					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.015	0.017	0.011	0.011
CO ₂ intensity of agriculture (to value added) (at ppp)	kCO ₂ /\$05p	n.a.	0.021	0.012	0.005
CO ₂ emissions of agriculture sector per capita	tCO ₂ /cap	n.a.	0.01	0.01	0.00
Transformation sector					
Efficiency of total electricity generation	%	51.8	44.6	43.6	44.3
Rate of electricity transmission-distribution losses	%	42.1	27.1	34.1	20.6
Efficiency of thermal power plants	%	31.0	30.7	36.7	36.7
Share of renewables in electricity generating capacity	%	55.7	37.5	27.9	34.0
Share of renewables in gross electricity consumption	%	58.2	44.9	25.2	27.7

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	1191	1678	1931	2444
Average electricity price (at ppp)	c05p/kWh	n.a.	n.a.	11.5	20.3
Average price of motor fuels (at ppp)	\$05p/l	n.a.	n.a.	1.12	1.64