

South Korea

Energy Efficiency/CO2 ¹ Indicators	Units	1980	1990	2000	2007
Key indicators					
Primary energy intensity (at purchasing power parities (ppp))	koe/\$05p	0.216	0.197	0.226	0.194
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.204	0.195	0.222	0.188
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.181	0.166	0.166	0.137
Final energy intensity (at ppp)	koe/\$05p	0.158	0.132	0.132	0.110
Final energy intensity at 2005 GDP structure ³ (ppp)	koe/\$05p	0.153	0.129	0.133	0.109
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.135	0.118	0.119	0.098
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.497	0.500	0.426
CO2 emissions per capita	tCO2/cap	n.a.	5.48	9.08	10.26
Industry					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.194	0.135	0.146	0.113
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.339	0.211	0.200	0.149
Unit consumption of steel	toe/t	0.36	0.26	0.29	0.32
CO2 intensity of industry ² (to value added) (at ppp)	kCO2/\$05p	n.a.	0.417	0.392	0.280
CO2 emissions of industry ² per capita	tCO2/cap	n.a.	1.61	2.57	2.69
Transport					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.025	0.032	0.036	0.029
Average consumption of road transport per equivalent car	toe/car equiv.	n.a.	n.a.	n.a.	n.a.
Unit consumption of goods per ton km	toe/tkm	n.a.	n.a.	n.a.	n.a.
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.092	0.102	0.080
CO2 emissions of transport per capita	tCO2/cap	n.a.	1.02	1.85	1.92
Residential, service and agriculture sectors					
Energy intensity of households (to private consumption) (at ppp)	koe/\$05p	0.071	0.045	0.031	0.033
Average electricity consumption of households per capita	kWh/cap	139	414	789	1130
Average electricity consumption per household	kWh/hh	728	1716	2412	3822
Average electricity consumption of electrified households	kWh/hh	728	1716	2412	3822
Households consumption for electrical appliances and lighting	kWh/hh	0	1541	1980	n.a.
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.032	0.040	0.043	0.035
Electricity intensity of service sector (to value added) (at ppp)	kWh/\$05p	37	70	166	233
Unit consumption of services per employee	toe/emp	n.a.	1.03	1.20	n.a.
Unit electricity consumption of services per employee	kWh/emp	n.a.	1776	4644	n.a.
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.019	0.054	0.099	0.081
CO2 intensity of households (to private consumption) (at ppp)	kCO2/\$05p	n.a.	0.145	0.058	0.056
CO2 emissions of residential sector per household	tCO2/hh	n.a.	4.05	1.86	2.33
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.100	0.079	0.037
CO2 emissions of service sector per employee	tCO2/emp	n.a.	2.56	2.21	n.a.
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.154	0.266	0.192
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.11	0.21	0.15
Transformation sector					
Overall efficiency of energy transformations	%	79.5	74.1	71.5	70.6
Efficiency of total electricity generation	%	38.1	34.2	38.2	37.3
Rate of electricity transmission-distribution losses	%	6.5	3.4	4.3	3.8
Efficiency of thermal power plants	%	37.3	32.7	41.4	39.5
Diffusion of energy/CO2 efficient technologies and practices					
Per capita installed capacity of solar water heaters	m ² /1000inhab	n.a.	n.a.	n.a.	n.a.
Share of biofuels in road transport energy consumption	%	0	0	0	0.3
Share of biomass in industry energy consumption	%	0	1.4	6.2	10.2
Share of renewables in electricity generating capacity	%	11.2	9.9	6.7	8.4
Share of renewables in gross electricity consumption	%	5.3	6.0	2.0	1.3

¹ CO2 from fuel combustion

² incl. autoproducers

³ by main sector

GDP / PRICES	units	1980	1990	2000	2007
GDP per capita (at ppp)	\$05p/cap	5372	11031	18151	24083
Average electricity price (at ppp)	c05p/kWh	24.0	13.7	10.2	8.9
Average price of motor fuels (at ppp)	\$05p/l	1.25	0.62	1.35	1.71

Source : Enerdata www.enerdata.fr