

# OECD Asia and Pacific

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	0.170	0.152	0.163	0.146
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.168	0.150	0.161	0.143
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.131	0.125	0.129	0.111
Final energy intensity (at ppp)	koe/\$05p	0.110	0.096	0.098	0.085
Final energy intensity at 2005 GDP structure <sup>3</sup> (ppp)	koe/\$05p	0.103	0.092	0.097	0.085
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.096	0.087	0.091	0.079
Ratio final/primary intensity	%	72.2	72.0	69.8	68.7
CO <sub>2</sub> intensity (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.370	0.375	0.351
CO <sub>2</sub> emissions per capita	tCO <sub>2</sub> /cap	n.a.	8.20	9.77	10.50
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.147	0.109	0.115	0.103
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.215	0.162	0.162	0.140
Energy intensity of chemicals industry (at ppp)	koe/\$05p	0.297	0.239	0.228	0.227
Unit consumption of steel	toe/t	0.41	0.35	0.36	0.37
Share of electric process in steel production	%	23.4	30.1	32.0	31.4
Share of industrial cogeneration in power generation	%	0.1	0.6	2.0	1.7
CO <sub>2</sub> intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.290	0.315	0.277
CO <sub>2</sub> emissions of industry <sup>2</sup> per capita	tCO <sub>2</sub> /cap	n.a.	2.26	2.58	2.60
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.028	0.027	0.029	0.023
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.
Share of biofuels in road transport energy consumption	%	0	0	0	0.2
CO <sub>2</sub> intensity of transport to GDP (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.077	0.083	0.066
CO <sub>2</sub> emissions of transport per capita	tCO <sub>2</sub> /cap	n.a.	1.71	2.17	1.99
<b>Households</b>					
Average electricity consumption of households per capita	kWh/cap	917	1341	1803	2141
Average electricity consumption of electrified households	kWh/hh	n.a.	4520	5154	5968
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	30.4	31.8	33.7	44.9
CO <sub>2</sub> emissions of residential sector per household	tCO <sub>2</sub> /hh	n.a.	1.88	1.52	1.42
<b>Services</b>					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.017	0.024	0.027	0.024
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	47	107	133	150
Unit consumption of services per employee	toe/emp	5.75	10.97	13.22	12.78
Unit electricity consumption of services per employee	kWh/emp	16193	47970	64935	78851
CO <sub>2</sub> intensity of service sector (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.044	0.043	0.029
CO <sub>2</sub> emissions of service sector per employee	tCO <sub>2</sub> /emp	n.a.	19.81	21.13	15.42
<b>Agriculture</b>					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.052	0.084	0.091	0.087
CO <sub>2</sub> intensity of agriculture (to value added) (at ppp)	kCO <sub>2</sub> /\$05p	n.a.	0.243	0.251	0.233
CO <sub>2</sub> emissions of agriculture sector per capita	tCO <sub>2</sub> /cap	n.a.	0.16	0.15	0.13
<b>Transformation sector</b>					
Efficiency of total electricity generation	%	42.0	41.3	40.8	40.7
Rate of electricity transmission-distribution losses	%	6.8	6.4	6.2	5.5
Efficiency of thermal power plants	%	38.2	40.1	41.3	41.1
Share of renewables in electricity generating capacity	%	22.7	20.8	18.6	18.4
Share of renewables in gross electricity consumption	%	17.7	13.7	10.5	8.4

<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