

# North America

Energy Efficiency/CO2 <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	0.315	0.243	0.210	0.179
Primary energy intensity excluding traditional fuels (ppp)	koe/\$05p	0.305	0.235	0.203	0.172
Primary energy intensity adjusted to EU structure (ppp)	koe/\$05p	0.284	0.216	0.179	0.155
Final energy intensity (at ppp)	koe/\$05p	0.211	0.150	0.128	0.109
Final energy intensity at 2005 GDP structure <sup>3</sup> (ppp)	koe/\$05p	0.196	0.147	0.126	0.110
Final energy intensity adjusted to EU economic structure (ppp)	koe/\$05p	0.209	0.151	0.126	0.110
Ratio final/primary intensity	%	72.6	67.9	67.8	67.3
CO2 intensity (at ppp)	kCO2/\$05p	n.a.	0.598	0.508	0.426
CO2 emissions per capita	tCO2/cap	n.a.	18.57	19.32	17.90
<b>Industry</b>					
Energy intensity of industry (to value added) (at ppp)	koe/\$05p	0.271	0.169	0.141	0.128
Energy intensity of manufacturing (at ppp)	koe/\$05p	0.425	0.261	0.204	0.184
Energy intensity of chemicals industry (at ppp)	koe/\$05p	0.522	0.421	0.527	0.479
Unit consumption of steel	toe/t	0.52	0.42	0.35	0.31
Share of electric process in steel production	%	27.4	37.3	46.3	55.7
Share of industrial cogeneration in power generation	%	0	5.2	3.7	2.9
CO2 intensity of industry <sup>2</sup> (to value added) (at ppp)	kCO2/\$05p	n.a.	0.391	0.296	0.259
CO2 emissions of industry <sup>2</sup> per capita	tCO2/cap	n.a.	2.88	2.60	2.04
<b>Transport</b>					
Energy intensity of transport to GDP (at ppp)	koe/\$05p	0.071	0.059	0.051	0.045
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	0.6	3.7
CO2 intensity of transport to GDP (at ppp)	kCO2/\$05p	n.a.	0.171	0.149	0.128
CO2 emissions of transport per capita	tCO2/cap	n.a.	5.31	5.65	5.35
<b>Households</b>					
Average electricity consumption of households per capita	kWh/cap	3146	3751	4201	4554
Average electricity consumption of electrified households	kWh/hh	n.a.	10014	11200	12388
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	1.0	13.7	32.8	61.0
CO2 emissions of residential sector per household	tCO2/hh	n.a.	3.47	3.47	3.01
<b>Services</b>					
Energy intensity of service sector (to value added) (at ppp)	koe/\$05p	0.036	0.030	0.027	0.024
Electricity intensity of service sector (to value added) (at ppp)	kWh/k\$05p	145	161	156	158
Unit consumption of services per employee	toe/emp	n.a.	1.66	1.70	1.77
Unit electricity consumption of services per employee	kWh/emp	n.a.	8827	9942	11643
CO2 intensity of service sector (to value added) (at ppp)	kCO2/\$05p	n.a.	0.041	0.032	0.025
CO2 emissions of service sector per employee	tCO2/emp	n.a.	2.26	2.05	1.85
<b>Agriculture</b>					
Energy intensity of agriculture (to value added) (at ppp)	koe/\$05p	0.180	0.140	0.099	0.092
CO2 intensity of agriculture (to value added) (at ppp)	kCO2/\$05p	n.a.	0.399	0.281	0.259
CO2 emissions of agriculture sector per capita	tCO2/cap	n.a.	0.18	0.16	0.17
<b>Transformation sector</b>					
Efficiency of total electricity generation	%	47.9	39.3	39.6	40.1
Rate of electricity transmission-distribution losses	%	10.4	11.5	7.2	6.7
Efficiency of thermal power plants	%	n.a.	35.8	36.9	37.5
Share of renewables in electricity generating capacity	%	21.5	21.4	21.7	18.4
Share of renewables in gross electricity consumption	%	19.2	18.8	15.9	16.3

<sup>1</sup> CO2 from fuel combustion

<sup>2</sup> incl. autoproducers

<sup>3</sup> by main sector

<sup>4</sup> Italic = 2007