Environmental Emmission Indicators

Notes:

GHG emission is expressed in carbon dioxide equivalent (CO_2e) which accounts for the global warming potential (GWP) including CH_4 and N_2O, as prescribed by the Inter-governmental Panel on Climate Change (IPCC). GWP is the ratio of the warming resulting from the emission of one kilogram of a greenhouse gas to that of one kilogram emission of CO_2 over a fixed period of time (i.e. CH_4 and N_2O GWP is 21 times and 310 times the CO_2 emission, respectively)

Indicator	1999	2000	2001	2002	2003	2004
GHG emission-to-GDP ratio (CO_2e/PhP 1000, 1985=100)	0.07	0.06	0.06	0.06	0.06	0.06
GHG emission per capita (CO_2e/person)	0.84	0.82	0.81	0.79	0.79	0.80
GHG emission per Electricity Generation (CO_2e/MWh)	0.47	0.47	0.48	0.43	0.42	0.43
GHG emission per Oil consumption (CO_2e/TOE)	2.89	2.88	2.89	2.88	2.87	2.88
GHG emission per TPES (CO_2e/TOE)	1.64	1.61	1.67	1.67	1.70	1.74

Indicator	2005	2006	2007	2008	2009	AAGR*
GHG emission-to-GDP ratio (CO_2e/PhP 1000, 1985=100)	0.06	0.05	0.05	0.05	0.05	-3.3%
GHG emission per capita (CO_2e/person)	0.79	0.72	0.75	0.76	0.76	-1.0%
GHG emission per Electricity Generation (CO_2e/MWh)	0.46	0.40	0.41	0.45	0.45	-0.4%
GHG emission per Oil consumption (CO_2e/TOE)	2.87	2.88	2.89	2.87	2.87	-0.1%
GHG emission per TPES (CO_2e/TOE)	1.76	1.64	1.72	1.70	1.76	0.7%

*average annual growth rate

GHG Emmission by Sector and Activity

$MtCO_2e$ [1]

Sector and Activity	1999	2000	2001	2002	2003	2004
Industry	11.30	10.88	8.90	8.37	7.85	8.87
Transport	25.74	25.62	25.74	25.89	26.77	26.33
Others[2]	5.98	6.62	6.96	6.54	6.58	6.43
Electricy Generation	22.09	19.44	21.44	22.48	21.03	22.40
Energy[3][a]	-	0.00	0.00	0.00	0.91	0.85
Total	**65.11**	**62.56**	**63.04**	**63.27**	**63.14**	**64.87**

Sector and Activity	2005	2006	2007	2008	2009	AAGR[4]
Industry	8.88	9.33	9.51	10.02	11.71	0.4%
Transport	27.35	26.36	24.90	26.55	24.50	-0.5%
Others[2]	6.11	5.08	5.01	5.10	4.84	-2.1%
Electricy Generation	23.79	26.30	22.92	24.73	27.48	2.2%
Energy[3][a]	0.62	0.53	0.42	0.33	0.38	-13.4%
Total	**66.75**	**67.61**	**62.76**	**66.73**	**68.91**	**0.6%**

Notes:

(1) Million tons of CO_2 Equivalent ($MTCO_2e$)

(2) Includes Residential, Commercial and Agriculture Sectors

(3) Includes Oil refining, Electricity and other Energy sector own use and losses

(4) average annual growth rate

(a) average annual growth rate from 2003 to 2009

GHG Emmission by Fuel

$MtCO_2e$

Fuel type	1999	2000	2001	2002	2003	2004
Liquid Fossils (Oil)	53.47	49.30	44.94	45.37	43.23	42.87
Solid Fossils (Coal)	11.61	13.25	18.08	17.63	16.52	16.82
Gaseous Fossil (Natural Gas)[a]	0.02	0.01	0.02	0.27	3.39	5.17
Total	**65.11**	**62.56**	**63.04**	**63.27**	**63.14**	**64.87**

Fuel type	2005	2006	2007	2008	2009	AAGR*
Liquid Fossils (Oil)	44.25	40.50	37.13	38.54	36.59	-3.7%
Solid Fossils (Coal)	17.72	20.78	19.70	21.09	24.85	7.9%
Gaseous Fossil (Natural Gas)[a]	4.77	6.32	5.92	7.10	7.47	14.1%
Total	**66.75**	**67.61**	**62.76**	**66.73**	**68.91**	**0.6%**

*average annual growth rate

(a) average annual growth rate from 2003 to 2009