Hong Kong
Greenhouse Gas Emission Inventory and Projections - 1990, 2000 & 2010

Item no.	Sources	CO2	CH4	N2O	CO	NOx	NMVOC
				(THOUSAND TONNE)			
	Scenario 1 - No active measure to reduce emissions						
	GHG Emissions Inventory at 1990						
1	Power Station	25397	0.16	0.44	3.67	150.10	11.80
2	Main combustion sources	12508	0.73	1.49	99.17	28.22	19.29
3	Other single sources	608	81.87	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	38513	83	1.9	114	179	57
	Emission levels at 2000						
1	Power Station	23608	0.12	0.38	4.45	87.80	0.52
2	Main combustion sources	13873	1.10	2.24	148.76	42.33	28.93
3	Other single sources	2958	94.31	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	40439	96	2.6	164	131	55
	Emission levels at 2010						
1	Power Station	43928	0.25	0.55	7.39	157.08	0.84
2	Main combustion sources	16915	1.46	2.98	198.34	56.44	38.58
3	Other single sources	4878	144.04	0	11.13	0.95	0
4	Land & Farming	0	0.50	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	65721	146	3.5	217	214	65
	Scenario 2 - Adopting Demand Side Management from 1998						
	GHG Emissions Inventory at 1990						
1	Power Station	25397	0.16	0.44	3.67	150.10	11.80
2	Main combustion sources	12508	0.73	1.49	99.17	28.22	19.29
3	Other single sources	608	81.87	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	38513	83	1.9	114	179	57
	Emission levels at 2000						
1	Power Station	22830	0.12	0.37	4.34	85.20	0.51
2	Main combustion sources	13873	1.10	2.235	148.75	42.33	28.93
3	Other single sources	2958	94.31	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	39661	96	2.6	164	128	55
	Emission levels at 2010						
1	Power Station	40065	0.23	0.52	6.83	143.91	0.78
2	Main combustion sources	16915	1.46	2.980	198.34	56.44	38.58
3	Other single sources	4878	144.04	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	61858	146	3.5	216	201	65

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Item no.	Sources	CO2	CH4	N2O	CO	NOx	NMVOC
				(THOUSAND TONNE)			
	Scenario 3 - Scenario 2 plus using natural gas for future power generators						
	GHG Emissions Inventory at 1990						
1	Power Station	25397	0.16	0.44	3.67	150.10	11.80
2	Main combustion sources	12508	0.73	1.49	99.17	28.22	19.29
3	Other single sources	608	81.87	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	38513	83	1.9	114	179	57
	Emission levels at 2000						
1	Power Station	22830	0.12	0.37	4.34	85.20	0.51
2	Main combustion sources	13873	1.10	2.235	148.75	42.33	28.93
3	Other single sources	2958	94.31	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	39661	96	2.6	164	128	55
	Emission levels at 2010						
1	Power Station	32983	0.16	0.57	6.29	119.98	0.74
2	Main combustion sources	16915	1.46	2.980	198.34	56.44	38.58
3	Other single sources	4878	144.04	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	54776	146	3.6	216	177	65
	Scenario 4 - Scenario 2 plus using natural gas for existing and future generators						
	GHG Emissions Inventory at 1990						
1	Power Station	25397	0.16	0.44	3.67	150.10	11.80
2	Main combustion sources	12508	0.73	1.49	99.17	28.22	19.29
3	Other single sources	608	81.87	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	38513	83	1.9	114	179	57
	Emission levels at 2000						
1	Power Station	12378	0.15	0.37	2.93	41.20	0.37
2	Main combustion sources	13873	1.10	2.235	148.75	42.33	28.93
3	Other single sources	2958	94.31	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	29209	96	2.6	163	84	55
	Emission levels at 2010						
1	Power Station	19307	0.02	0.60	4.74	66.66	0.59
2	Main combustion sources	16915	1.46	2.980	198.34	56.44	38.58
3	Other single sources	4878	144.04	0	11.13	0.95	0.48
4	Land & Farming	0	0.5	0.01	0	0	0
5	Paint & consumer products	0	0	0	0	0	25.20
	Total	41100	146	3.6	214	124	65

Notes

a) Item 2 refers to use of diesel, naphtha and fuel oil at stationery and mobile sources

b) Major sources under item 3 include various incinerators, landfills and cement plant

c) Main combustion sources include vehicle emissions which are assumed to double between 1990 and 2010, or about an annual compound growth rate of 3.5%, which is close to 2nd Comprehensive Transport Study traffic projections. This does not account for change in emission factors, e.g. lower carbon dioxide and nitrogen oxides emissions from advance vehicles.