Table 3-1: Emissions from Industrial Processes (Tg CO_2 Eq.)

Gas/Source	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CO_2	**54.6**	**53.3**	**53.7**	**55.3**	**58.2**	**61.9**	**63.3**	**66.1**	**67.0**	**67.4**
Cement Manufacture	33.3	32.5	32.8	34.6	36.1	36.8	37.1	38.3	39.2	39.9
Lime Manufacture	11.2	11.0	11.4	11.6	12.1	12.8	13.5	13.7	13.9	13.4
Limestone and Dolomite Use	5.1	4.9	4.5	4.1	5.2	7.0	7.3	8.3	8.1	8.3
Soda Ash Manufacture and Consumption	4.1	4.0	4.1	4.0	4.0	4.3	4.3	4.4	4.3	4.2
Carbon Dioxide Consumption	0.8	0.8	0.9	0.9	0.9	1.0	1.1	1.3	1.4	1.6
Iron and Steel Production*	87.6	70.6	75.8	77.1	79.0	81.4	79.0	79.4	77.1	71.8
Ammonia Manufacture*	23.1	23.4	24.4	23.4	24.3	23.7	24.4	24.3	25.1	25.8
Ferroalloy Production*	1.8	1.6	1.6	1.5	1.6	1.6	1.7	1.8	1.8	1.8
Aluminum Production*	6.0	6.1	5.9	5.4	4.8	5.0	5.3	5.3	5.5	5.6
CH_4	**1.2**	**1.2**	**1.3**	**1.4**	**1.5**	**1.5**	**1.6**	**1.6**	**1.6**	**1.7**
Petrochemical Production	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.6	1.7
Silicon Carbide Production	+	+	+	+	+	+	+	+	+	+
N_2O	**36.1**	**37.0**	**35.9**	**37.6**	**39.9**	**40.2**	**41.5**	**38.3**	**28.1**	**29.2**
Nitric Acid Production	17.8	17.8	18.3	18.6	19.6	19.9	20.7	21.2	20.9	20.2
Adipic Acid Production	18.3	19.2	17.6	19.1	20.3	20.3	20.8	17.1	7.3	9.0
HFCs, PFCs, and SF_6	**83.9**	**78.8**	**83.6**	**83.8**	**86.9**	**99.0**	**115.1**	**123.3**	**138.6**	**135.7**
Substitution of Ozone Depleting Substances	0.9	30.8	34.8	31.9	31.5	24.0	34.0	42.1	49.6	56.7
HCFC-22 Production	34.8	21.5	22.6	23.6	24.7	27.1	31.2	30.1	40.0	30.4
Electrical Transmission and Distribution	20.5	0.8	1.5	5.2	10.0	25.7	25.7	25.7	25.7	25.7
Aluminum Production	19.3	17.2	16.3	14.0	11.5	11.2	11.6	10.8	10.1	10.0
Semiconductor Manufacture	2.9	2.9	2.9	3.7	4.2	5.5	7.0	7.0	6.8	6.8
Magnesium Production and Processing	5.5	5.5	5.5	5.4	5.1	5.5	5.6	7.5	6.3	6.1
Total	**175.8**	**170.4**	**174.4**	**178.1**	**186.5**	**202.7**	**221.5**	**229.3**	**235.3**	**234.0**

+ Does not exceed 0.05 Tg CO_2 Eq.

* Emissions from these sources are accounted for in the Energy chapter and are not included in the Industrial Processes totals.

Note: Totals may not sum due to independent rounding.