

## 別添 9. 共通報告様式 (CRF) の概要

以下に各年の排出状況が分かる CRF の Summary.2 Table を記載する。

日本は、1990 年～1994 年の期間は HFCs、PFCs、SF<sub>6</sub> の潜在排出量のみを報告している。CRF 本体の各年の傾向を示す Table.10 において、1990 年～1994 年の期間は HFCs、PFCs、SF<sub>6</sub> の潜在排出量が示されており、1995 年以降は HFCs、PFCs、SF<sub>6</sub> の実排出量が示されている。

9.1. 1990 年の排出量<sup>1</sup>及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1990  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,052,151.14</b>	<b>33,484.87</b>	<b>32,736.78</b>	<b>17,930.00</b>	<b>5,670.00</b>	<b>38,240.00</b>	<b>1,180,212.79</b>
<b>1. Energy</b>	<b>1,059,180.36</b>	<b>3,866.78</b>	<b>6,536.32</b>				<b>1,069,583.46</b>
A. Fuel Combustion (Sectoral Approach)	1,059,143.74	829.64	6,536.20				1,066,509.58
1. Energy Industries	317,760.48	18.37	545.63				318,324.48
2. Manufacturing Industries and Construction	367,681.17	307.45	1,495.92				369,484.54
3. Transport	211,053.69	296.16	4,204.15				215,554.01
4. Other Sectors	161,641.24	207.12	272.31				162,120.66
5. Other	1,007.16	0.54	18.19				1,025.88
B. Fugitive Emissions from Fuels	36.62	3,037.14	0.11				3,073.88
1. Solid Fuels	NE,NO	2,806.43	NE,NO				2,806.43
2. Oil and Natural Gas	36.62	230.71	0.11				267.45
<b>2. Industrial Processes</b>	<b>62,318.39</b>	<b>357.58</b>	<b>8,266.95</b>	<b>17,930.00</b>	<b>5,670.00</b>	<b>38,240.00</b>	<b>132,782.92</b>
A. Mineral Products	57,448.33	NA,NO	NA,NO				57,448.33
B. Chemical Industry	4,513.97	338.22	8,266.95	NA	NA	NA	13,119.14
C. Metal Production	356.09	19.36	NO	NA,NE	NA,NE	NA,NE	375.45
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				17,930.00	5,670.00	38,240.00	61,840.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>287.07</b>				<b>287.07</b>
<b>4. Agriculture</b>		<b>17,894.84</b>	<b>14,323.00</b>				<b>32,217.84</b>
A. Enteric Fermentation		7,641.73					7,641.73
B. Manure Management		3,120.57	5,543.05				8,663.62
C. Rice Cultivation		7,002.78					7,002.78
D. Agricultural Soils <sup>(3)</sup>		NA	8,676.03				8,676.03
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		129.77	103.92				233.69
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-92,046.24</b>	<b>99.33</b>	<b>103.29</b>				<b>-91,843.62</b>
A. Forest Land	-80,759.32	8.31	0.84				-80,750.17
B. Cropland	1,945.52	21.72	95.41				2,062.65
C. Grassland	-3,955.60	3.06	0.31				-3,952.24
D. Wetlands	281.78	1.32	0.13				283.23
E. Settlements	-9,993.41	54.63	5.54				-9,933.24
F. Other Land	434.80	10.30	1.05				446.14
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>22,698.63</b>	<b>11,266.33</b>	<b>3,220.16</b>				<b>37,185.11</b>
A. Solid Waste Disposal on Land	NA,NE,NO	9,083.92					9,083.92
B. Waste-water Handling		2,119.61	1,289.37				3,408.98
C. Waste Incineration	21,995.80	62.80	1,910.66				23,969.26
D. Other	702.83	IE,NO	20.12				722.95
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	30,829.18	42.30	275.80				31,147.29
Aviation	13,189.32	7.84	130.44				13,327.60
Marine	17,639.86	34.47	145.36				17,819.69
<b>Multilateral Operations</b>	NO	NO	NO				NO
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,747.30</b>						<b>18,747.30</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,272,056.41
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,180,212.79

(1) For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

<sup>1</sup> HFCs、PFCs、SF<sub>6</sub> については潜在排出量が報告されている。

9.2. 1991 年の排出量<sup>2</sup>及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1991  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,062,699.50</b>	<b>33,246.42</b>	<b>32,209.46</b>	<b>18,070.00</b>	<b>6,370.00</b>	<b>43,498.00</b>	<b>1,196,093.38</b>
<b>1. Energy</b>	<b>1,066,681.72</b>	<b>3,629.49</b>	<b>6,814.38</b>				<b>1,077,125.59</b>
A. Fuel Combustion (Sectoral Approach)	1,066,628.05	834.73	6,814.22				1,074,277.00
1. Energy Industries	320,303.88	19.59	568.32				320,891.79
2. Manufacturing Industries and Construction	362,542.37	307.19	1,581.86				364,431.42
3. Transport	222,466.79	298.57	4,367.17				227,132.54
4. Other Sectors	160,314.95	208.77	278.75				160,802.47
5. Other	1,000.07	0.60	18.12				1,018.79
B. Fugitive Emissions from Fuels	53.67	2,794.76	0.16				2,848.59
1. Solid Fuels	NE,NO	2,538.33	NE,NO				2,538.33
2. Oil and Natural Gas	53.67	256.43	0.16				310.26
<b>2. Industrial Processes</b>	<b>63,875.92</b>	<b>347.49</b>	<b>7,539.75</b>	<b>18,070.00</b>	<b>6,370.00</b>	<b>43,498.00</b>	<b>139,701.17</b>
A. Mineral Products	59,052.72	NA,NO	NA,NO				59,052.72
B. Chemical Industry	4,500.16	329.15	7,539.75	NA	NA	NA	12,369.06
C. Metal Production	323.04	18.34	NO	NA,NE	NA,NE	NA,NE	341.38
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				18,070.00	6,370.00	43,498.00	67,938.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>	<b>NO</b>	<b>356.85</b>				<b>356.85</b>
<b>4. Agriculture</b>		<b>18,016.38</b>	<b>14,107.72</b>				<b>32,124.09</b>
A. Enteric Fermentation		7,751.70					7,751.70
B. Manure Management		3,116.81	5,499.54				8,616.35
C. Rice Cultivation		7,020.95					7,020.95
D. Agricultural Soils <sup>(3)</sup>		NA	8,509.81				8,509.81
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		126.91	98.37				225.28
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-90,931.20</b>	<b>98.26</b>	<b>96.33</b>				<b>-90,736.60</b>
A. Forest Land	-80,718.47	6.22	0.63				-80,711.62
B. Cropland	1,539.46	12.28	87.60				1,639.34
C. Grassland	-3,482.53	1.75	0.18				-3,480.60
D. Wetlands	261.56	1.20	0.12				262.88
E. Settlements	-9,030.70	64.99	6.60				-8,959.12
F. Other Land	499.49	11.82	1.20				512.52
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>23,073.05</b>	<b>11,154.80</b>	<b>3,294.44</b>				<b>37,522.29</b>
A. Solid Waste Disposal on Land	NA,NE,NO	9,014.71					9,014.71
B. Waste-water Handling		2,077.23	1,311.17				3,388.40
C. Waste Incineration	22,386.61	62.86	1,966.95				24,416.42
D. Other	686.45	IE,NO	16.31				702.76
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	32,531.98	44.64	291.02				32,867.64
Aviation	13,919.12	8.27	137.65				14,065.05
Marine	18,612.86	36.36	153.37				18,802.60
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	18,870.94						18,870.94
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,286,829.99
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,196,093.38

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

<sup>2</sup> HFCs、PFCs、SF<sub>6</sub>については潜在排出量が報告されている

9.3. 1992 年の排出量<sup>3</sup>及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1992  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,071,854.75</b>	<b>32,994.25</b>	<b>32,329.15</b>	<b>19,750.00</b>	<b>6,370.00</b>	<b>47,800.00</b>	<b>1,211,098.15</b>
<b>1. Energy</b>	<b>1,073,741.85</b>	<b>3,376.96</b>	<b>6,974.76</b>				<b>1,084,093.57</b>
A. Fuel Combustion (Sectoral Approach)	1,073,684.90	849.62	6,974.59				1,081,509.11
1. Energy Industries	327,020.00	20.45	541.47				327,581.92
2. Manufacturing Industries and Construction	354,334.67	303.22	1,666.08				356,303.98
3. Transport	226,859.69	301.50	4,459.21				231,620.40
4. Other Sectors	164,488.04	223.76	289.85				165,001.65
5. Other	982.50	0.69	17.98				1,001.17
B. Fugitive Emissions from Fuels	56.95	2,527.34	0.17				2,584.46
1. Solid Fuels	NE,NO	2,267.52	NE,NO				2,267.52
2. Oil and Natural Gas	56.95	259.82	0.17				316.94
<b>2. Industrial Processes</b>	<b>63,524.19</b>	<b>322.22</b>	<b>7,452.41</b>	<b>19,750.00</b>	<b>6,370.00</b>	<b>47,800.00</b>	<b>145,218.82</b>
A. Mineral Products	58,818.65	NA,NO	NA,NO				58,818.65
B. Chemical Industry	4,380.50	304.45	7,452.41	NA	NA	NA	12,137.36
C. Metal Production	325.05	17.76	NO	NA,NE	NA,NE	NA,NE	342.81
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				19,750.00	6,370.00	47,800.00	73,920.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>413.01</b>				<b>413.01</b>
<b>4. Agriculture</b>		<b>18,101.56</b>	<b>13,975.66</b>				<b>32,077.22</b>
A. Enteric Fermentation		7,793.32					7,793.32
B. Manure Management		3,089.85	5,447.38				8,537.23
C. Rice Cultivation		7,102.75					7,102.75
D. Agricultural Soils <sup>(3)</sup>		NA	8,437.57				8,437.57
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		115.64	90.72				206.36
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-89,984.82</b>	<b>105.51</b>	<b>91.84</b>				<b>-89,787.47</b>
A. Forest Land	-80,680.55	4.34	0.44				-80,675.77
B. Cropland	1,546.19	14.07	82.56				1,642.81
C. Grassland	-3,275.21	2.05	0.21				-3,272.95
D. Wetlands	358.58	3.85	0.39				362.82
E. Settlements	-8,343.15	71.58	7.26				-8,264.31
F. Other Land	409.32	9.63	0.98				419.93
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>24,573.52</b>	<b>11,088.00</b>	<b>3,421.47</b>				<b>39,082.98</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,986.57					8,986.57
B. Waste-water Handling		2,038.24	1,296.16				3,334.39
C. Waste Incineration	23,874.62	63.19	2,108.55				26,046.36
D. Other	698.90	IE,NO	16.76				715.66
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	32,937.28	45.03	294.87				33,277.18
Aviation	14,216.76	8.45	140.60				14,365.81
Marine	18,720.51	36.58	154.28				18,911.37
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,419.27</b>						<b>18,419.27</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,300,885.61
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,211,098.15

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary 1.A.

<sup>3</sup> HFCs, PFCs, SF<sub>6</sub>については潜在排出量が報告されている

9.4. 1993 年の排出量<sup>4</sup>及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1993  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,064,269.42</b>	<b>32,711.75</b>	<b>32,036.40</b>	<b>21,310.00</b>	<b>8,860.00</b>	<b>45,410.00</b>	<b>1,204,597.56</b>
<b>1. Energy</b>	<b>1,067,613.04</b>	<b>3,208.95</b>	<b>7,007.99</b>				<b>1,077,829.99</b>
A. Fuel Combustion (Sectoral Approach)	1,067,559.83	869.73	7,007.83				1,075,437.38
1. Energy Industries	308,959.26	20.39	551.21				309,530.85
2. Manufacturing Industries and Construction	353,672.48	305.06	1,683.79				355,661.33
3. Transport	231,727.93	294.22	4,432.03				236,454.18
4. Other Sectors	172,284.75	249.36	322.72				172,856.82
5. Other	915.40	0.70	18.09				934.19
B. Fugitive Emissions from Fuels	53.21	2,339.23	0.16				2,392.61
1. Solid Fuels	NE,NO	2,075.76	NE,NO				2,075.76
2. Oil and Natural Gas	53.21	263.46	0.16				316.84
<b>2. Industrial Processes</b>	<b>62,767.28</b>	<b>320.55</b>	<b>7,302.85</b>	<b>21,310.00</b>	<b>8,860.00</b>	<b>45,410.00</b>	<b>145,970.68</b>
A. Mineral Products	58,279.87	NA,NO	NA,NO				58,279.87
B. Chemical Industry	4,156.65	303.85	7,302.85	NA	NA	NA	11,763.35
C. Metal Production	330.76	16.70	NO	NA,NE	NA,NE	NA,NE	347.46
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				21,310.00	8,860.00	45,410.00	75,580.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>	<b></b>	<b>411.66</b>	<b></b>	<b></b>	<b></b>	<b>411.66</b>
<b>4. Agriculture</b>	<b></b>	<b>18,185.94</b>	<b>13,796.26</b>	<b></b>	<b></b>	<b></b>	<b>31,982.20</b>
A. Enteric Fermentation		7,748.30					7,748.30
B. Manure Management		3,026.51	5,347.77				8,374.27
C. Rice Cultivation		7,292.48					7,292.48
D. Agricultural Soils <sup>(3)</sup>		NA	8,358.06				8,358.06
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		118.65	90.43				209.08
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-90,289.97</b>	<b>97.48</b>	<b>85.33</b>	<b></b>	<b></b>	<b></b>	<b>-90,107.16</b>
A. Forest Land	-80,633.45	23.91	2.43				-80,607.12
B. Cropland	1,182.77	4.99	75.94				1,263.70
C. Grassland	-2,967.17	0.74	0.07				-2,966.36
D. Wetlands	256.61	1.68	0.17				258.46
E. Settlements	-8,698.37	54.09	5.49				-8,638.79
F. Other Land	569.65	12.06	1.22				582.94
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>24,179.07</b>	<b>10,898.82</b>	<b>3,432.30</b>	<b></b>	<b></b>	<b></b>	<b>38,510.19</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,848.98					8,848.98
B. Waste-water Handling		1,986.60	1,299.83				3,286.43
C. Waste Incineration	23,498.33	63.24	2,114.98				25,676.55
D. Other	680.75	IE,NO	17.48				698.23
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>
International Bunkers	34,935.20	49.40	310.66				35,295.26
Aviation	13,856.19	8.23	137.03				14,001.45
Marine	21,079.01	41.17	173.63				21,293.81
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	17,568.73						17,568.73
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,294,704.72
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,204,597.56

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

<sup>4</sup> HFCs、PFCs、SF<sub>6</sub>については潜在排出量が報告されている

9.5. 1994 年の排出量<sup>5</sup>及び吸収量SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1994  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,124,452.36</b>	<b>31,999.28</b>	<b>33,190.82</b>	<b>28,840.00</b>	<b>12,274.00</b>	<b>45,410.00</b>	<b>1,276,166.46</b>
<b>1. Energy</b>	<b>1,123,001.06</b>	<b>2,847.86</b>	<b>7,327.10</b>				<b>1,133,176.02</b>
A. Fuel Combustion (Sectoral Approach)	1,122,949.91	868.33	7,326.94				1,131,145.18
1. Energy Industries	349,637.32	22.63	622.06				350,282.02
2. Manufacturing Industries and Construction	361,531.01	314.22	1,847.28				363,692.50
3. Transport	243,681.03	295.61	4,513.22				248,489.86
4. Other Sectors	167,240.42	235.14	326.03				167,801.59
5. Other	860.13	0.73	18.35				879.21
B. Fugitive Emissions from Fuels	51.15	1,979.53	0.16				2,030.84
1. Solid Fuels	NE,NO	1,712.96	NE,NO				1,712.96
2. Oil and Natural Gas	51.15	266.57	0.16				317.88
<b>2. Industrial Processes</b>	<b>64,049.23</b>	<b>320.85</b>	<b>8,298.10</b>	<b>28,840.00</b>	<b>12,274.00</b>	<b>45,410.00</b>	<b>159,192.18</b>
A. Mineral Products	59,270.16	NA,NO	NA,NO				59,270.16
B. Chemical Industry	4,433.31	303.40	8,298.10	NA	NA	NA	13,034.81
C. Metal Production	345.76	17.45	NO	NA,NE	NA,NE	NA,NE	363.21
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				NE,NO	NE,NO	NE,NO	NE,NO
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				28,840.00	12,274.00	45,410.00	86,524.00
G. Other	NO	NO	NO	NE,NO	NE,NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>438.02</b>				<b>438.02</b>
<b>4. Agriculture</b>		<b>18,041.41</b>	<b>13,491.82</b>				<b>31,533.23</b>
A. Enteric Fermentation		7,660.50					7,660.50
B. Manure Management		2,956.18	5,220.30				8,176.48
C. Rice Cultivation		7,308.38					7,308.38
D. Agricultural Soils <sup>(3)</sup>		NA	8,183.28				8,183.28
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		116.35	88.24				204.59
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-90,042.23</b>	<b>78.70</b>	<b>71.07</b>				<b>-89,892.46</b>
A. Forest Land	-80,573.18	17.75	1.80				-80,553.62
B. Cropland	1,066.81	4.89	63.58				1,135.29
C. Grassland	-2,753.20	0.73	0.07				-2,752.39
D. Wetlands	251.67	1.84	0.19				253.70
E. Settlements	-8,577.98	42.50	4.31				-8,531.17
F. Other Land	543.63	10.99	1.12				555.74
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>27,444.31</b>	<b>10,710.45</b>	<b>3,564.72</b>				<b>41,719.48</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,725.69					8,725.69
B. Waste-water Handling		1,920.29	1,264.39				3,184.68
C. Waste Incineration	26,742.39	64.48	2,284.55				29,091.43
D. Other	701.91	IE,NO	15.77				717.68
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	36,093.69	50.02	322.19				36,465.90
Aviation	15,066.49	8.95	149.00				15,224.44
Marine	21,027.20	41.06	173.19				21,241.46
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	17,803.39						17,803.39
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,366,058.92
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,276,166.46

(1) For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

<sup>5</sup> HFCs、PFCs、SF<sub>6</sub>については潜在排出量が報告されている

## 9.6. 1995 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1995  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,134,639.42</b>	<b>31,034.72</b>	<b>33,504.95</b>	<b>20,211.80</b>	<b>14,301.93</b>	<b>16,928.79</b>	<b>1,250,621.62</b>
<b>1. Energy</b>	<b>1,135,318.29</b>	<b>2,511.31</b>	<b>7,942.05</b>				<b>1,145,771.65</b>
A. Fuel Combustion (Sectoral Approach)	1,135,267.37	901.44	7,941.90				1,144,110.70
1. Energy Industries	337,867.69	23.02	1,033.30				338,924.01
2. Manufacturing Industries and Construction	366,245.96	316.34	1,903.48				368,465.78
3. Transport	251,161.43	306.23	4,649.77				256,117.43
4. Other Sectors	179,123.31	254.95	336.05				179,714.31
5. Other	868.98	0.89	19.30				889.17
B. Fugitive Emissions from Fuels	50.92	1,609.87	0.16				1,660.95
1. Solid Fuels	NE,NO	1,344.68	NE,NO				1,344.68
2. Oil and Natural Gas	50.92	265.19	0.16				316.26
<b>2. Industrial Processes</b>	<b>64,264.52</b>	<b>322.37</b>	<b>8,212.71</b>	<b>20,211.80</b>	<b>14,301.93</b>	<b>16,928.79</b>	<b>124,242.12</b>
A. Mineral Products	59,381.83	NA,NO	NA,NO				59,381.83
B. Chemical Industry	4,525.47	304.45	8,212.71	NA	NA	NA	13,042.62
C. Metal Production	357.22	17.92	NO	NA,NE	69.73	119.50	564.37
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				17,442.52	762.85	4,708.30	22,913.67
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				2,769.29	13,469.35	12,100.99	28,339.63
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>437.58</b>				<b>437.58</b>
<b>4. Agriculture</b>		<b>17,718.38</b>	<b>13,136.08</b>				<b>30,854.45</b>
A. Enteric Fermentation		7,575.17					7,575.17
B. Manure Management		2,895.37	5,111.81				8,007.18
C. Rice Cultivation		7,126.61					7,126.61
D. Agricultural Soils <sup>(3)</sup>		NA	7,935.56				7,935.56
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		121.22	88.70				209.92
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-93,413.61</b>	<b>70.56</b>	<b>62.80</b>				<b>-93,280.25</b>
A. Forest Land	-84,355.78	8.66	0.88				-84,346.25
B. Cropland	959.91	5.10	56.16				1,021.17
C. Grassland	-2,512.45	0.77	0.08				-2,511.60
D. Wetlands	350.03	4.43	0.45				354.91
E. Settlements	-8,373.82	41.84	4.25				-8,327.73
F. Other Land	518.50	9.77	0.99				529.26
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>28,470.23</b>	<b>10,412.11</b>	<b>3,713.74</b>				<b>42,596.07</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,487.14					8,487.14
B. Waste-water Handling		1,859.63	1,246.87				3,106.50
C. Waste Incineration	27,802.40	65.34	2,450.63				30,318.37
D. Other	667.83	IE,NO	16.24				684.06
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	38,179.77	51.56	342.39				38,573.71
Aviation	16,922.99	10.06	167.36				17,100.41
Marine	21,256.78	41.50	175.03				21,473.30
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	18,487.35						18,487.35
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,343,901.86
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,250,621.62

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.7. 1996 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1996  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,147,812.81</b>	<b>30,337.46</b>	<b>34,580.30</b>	<b>19,844.72</b>	<b>14,903.86</b>	<b>17,494.78</b>	<b>1,264,973.93</b>
<b>I. Energy</b>	<b>1,147,173.83</b>	<b>2,461.01</b>	<b>8,148.14</b>				<b>1,157,782.98</b>
A. Fuel Combustion (Sectoral Approach)	1,147,124.46	900.52	8,147.99				1,156,172.96
1. Energy Industries	337,751.05	24.77	1,052.48				338,828.29
2. Manufacturing Industries and Construction	374,481.98	333.19	2,037.80				376,852.97
3. Transport	256,736.87	311.60	4,736.75				261,785.23
4. Other Sectors	177,236.82	230.05	301.23				177,768.10
5. Other	917.74	0.91	19.72				938.37
B. Fugitive Emissions from Fuels	49.37	1,560.49	0.15				1,610.01
1. Solid Fuels	NE,NO	1,297.15	NE,NO				1,297.15
2. Oil and Natural Gas	49.37	263.34	0.15				312.86
<b>2. Industrial Processes</b>	<b>64,029.45</b>	<b>312.02</b>	<b>9,220.07</b>	<b>19,844.72</b>	<b>14,903.86</b>	<b>17,494.78</b>	<b>125,804.89</b>
A. Mineral Products	59,153.87	NA,NO	NA,NO				59,153.87
B. Chemical Industry	4,495.60	293.80	9,220.07	NA	NA	NA	14,009.47
C. Metal Production	379.99	18.22	NO	NA,NE	65.97	143.40	607.58
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				16,050.22	1,008.00	4,182.50	21,240.72
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				3,794.50	13,829.89	13,168.88	30,793.27
G. Other	NO	NO	NO	NO	NO	NE,NO	NE,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>	<b>420.94</b>	<b>420.94</b>				<b>420.94</b>
<b>4. Agriculture</b>		<b>17,321.41</b>	<b>12,846.60</b>				<b>30,168.01</b>
A. Enteric Fermentation		7,518.23					7,518.23
B. Manure Management		2,851.35	5,044.17				7,895.52
C. Rice Cultivation		6,835.77					6,835.77
D. Agricultural Soils <sup>(3)</sup>		NA	7,717.01				7,717.01
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		116.06	85.41				201.47
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-93,334.88</b>	<b>84.33</b>	<b>56.52</b>				<b>-93,194.03</b>
A. Forest Land	-84,291.87	28.37	2.88				-84,260.63
B. Cropland	788.96	4.10	48.38				841.44
C. Grassland	-2,325.25	0.62	0.06				-2,324.56
D. Wetlands	524.58	8.01	0.81				533.40
E. Settlements	-8,496.80	33.37	3.39				-8,460.05
F. Other Land	465.49	9.87	1.00				476.37
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>29,944.41</b>	<b>10,158.69</b>	<b>3,888.04</b>				<b>43,991.14</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,267.83					8,267.83
B. Waste-water Handling		1,824.66	1,268.42				3,093.08
C. Waste Incineration	29,303.94	66.20	2,602.93				31,973.08
D. Other	640.47	IE,NO	16.69				657.16
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	30,958.25	35.39	285.44				31,279.08
Aviation	18,441.91	10.96	182.38				18,635.25
Marine	12,516.34	24.43	103.06				12,643.83
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,547.51</b>						<b>18,547.51</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,358,167.96
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,264,973.93

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary 1.A.

## 9.8. 1997 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1997  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,143,562.04</b>	<b>29,241.53</b>	<b>35,211.19</b>	<b>19,809.18</b>	<b>16,121.63</b>	<b>14,830.93</b>	<b>1,258,776.50</b>
<b>1. Energy</b>	<b>1,143,414.84</b>	<b>2,167.53</b>	<b>8,387.34</b>				<b>1,153,969.72</b>
A. Fuel Combustion (Sectoral Approach)	1,143,366.87	890.29	8,387.20				1,152,644.35
1. Energy Industries	334,252.92	26.47	1,083.59				335,362.98
2. Manufacturing Industries and Construction	376,489.07	315.27	2,197.43				379,001.76
3. Transport	258,735.79	312.57	4,781.94				263,830.30
4. Other Sectors	172,975.47	235.19	304.77				173,515.43
5. Other	913.62	0.79	19.47				933.88
B. Fugitive Emissions from Fuels	47.97	1,277.25	0.15				1,325.37
1. Solid Fuels	NE,NO	1,006.86	NE,NO				1,006.86
2. Oil and Natural Gas	47.97	270.39	0.15				318.51
<b>2. Industrial Processes</b>	<b>62,306.04</b>	<b>260.90</b>	<b>9,742.87</b>	<b>19,809.18</b>	<b>16,121.63</b>	<b>14,830.93</b>	<b>123,071.56</b>
A. Mineral Products	57,478.48	NA,NO	NA,NO				57,478.48
B. Chemical Industry	4,443.09	242.58	9,742.87	NA	NA	NA	14,428.53
C. Metal Production	384.48	18.33	NO	NA,NE	59.51	191.20	653.52
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				15,075.19	1,417.00	2,633.78	19,125.97
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				4,733.99	14,645.12	12,005.95	31,385.06
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>	<b>404.60</b>	<b>404.60</b>				<b>404.60</b>
<b>4. Agriculture</b>		<b>16,867.21</b>	<b>12,656.92</b>				<b>29,524.12</b>
A. Enteric Fermentation		7,472.96					7,472.96
B. Manure Management		2,802.40	4,989.17				7,791.57
C. Rice Cultivation		6,480.18					6,480.18
D. Agricultural Soils <sup>(3)</sup>		NA	7,584.57				7,584.57
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		111.66	83.18				194.84
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-93,206.36</b>	<b>82.68</b>	<b>49.29</b>				<b>-93,074.39</b>
A. Forest Land	-84,227.61	34.31	3.48				-84,189.81
B. Cropland	649.93	3.06	41.21				694.20
C. Grassland	-2,102.87	0.47	0.05				-2,102.36
D. Wetlands	251.80	1.98	0.20				253.99
E. Settlements	-8,473.80	30.70	3.12				-8,439.98
F. Other Land	696.17	12.16	1.23				709.57
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>31,047.52</b>	<b>9,863.21</b>	<b>3,970.17</b>				<b>44,880.89</b>
A. Solid Waste Disposal on Land	NA,NE,NO	8,019.21					8,019.21
B. Waste-water Handling		1,778.44	1,278.76				3,057.20
C. Waste Incineration	30,392.29	65.56	2,674.00				33,131.84
D. Other	655.23	IE,NO	17.41				672.64
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	35,432.29	43.17	323.34				35,798.80
Aviation	19,134.37	11.37	189.23				19,334.97
Marine	16,297.92	31.80	134.12				16,463.84
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	19,107.10						19,107.10
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,351,850.89
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,258,776.50

(1) For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary I.A.



## 9.9. 1998 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1998  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,107,732.06</b>	<b>28,379.55</b>	<b>33,762.72</b>	<b>19,293.95</b>	<b>13,241.06</b>	<b>13,430.79</b>	<b>1,215,840.14</b>
<b>I. Energy</b>	<b>1,113,103.78</b>	<b>2,003.03</b>	<b>8,264.92</b>				<b>1,123,371.73</b>
A. Fuel Combustion (Sectoral Approach)	1,113,061.05	865.05	8,264.79				1,122,190.89
1. Energy Industries	324,060.52	27.84	1,097.31				325,185.66
2. Manufacturing Industries and Construction	353,373.45	282.39	2,149.74				355,805.58
3. Transport	257,852.23	301.84	4,675.54				262,829.61
4. Other Sectors	176,908.91	252.38	323.21				177,484.50
5. Other	865.95	0.61	18.99				885.55
B. Fugitive Emissions from Fuels	42.73	1,137.98	0.13				1,180.84
1. Solid Fuels	NE,NO	872.46	NE,NO				872.46
2. Oil and Natural Gas	42.73	265.52	0.13				308.38
<b>2. Industrial Processes</b>	<b>56,237.38</b>	<b>243.52</b>	<b>8,577.87</b>	<b>19,293.95</b>	<b>13,241.06</b>	<b>13,430.79</b>	<b>111,024.58</b>
A. Mineral Products	52,038.56	NA,NO	NA,NO				52,038.56
B. Chemical Industry	3,905.71	227.37	8,577.87	NA	NA	NA	12,710.95
C. Metal Production	293.11	16.15	NO	NA,NE	49.45	406.30	765.01
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,049.73	1,390.00	2,127.10	17,566.83
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,244.22	11,801.61	10,897.39	27,943.22
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>377.05</b>				<b>377.05</b>
<b>4. Agriculture</b>		<b>16,559.74</b>	<b>12,525.53</b>				<b>29,085.27</b>
A. Enteric Fermentation		7,438.25					7,438.25
B. Manure Management		2,744.51	4,940.43				7,684.94
C. Rice Cultivation		6,267.74					6,267.74
D. Agricultural Soils <sup>(3)</sup>		NA	7,502.05				7,502.05
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		109.24	83.05				192.30
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-92,748.02</b>	<b>62.39</b>	<b>42.62</b>				<b>-92,643.01</b>
A. Forest Land	-84,167.00	10.68	1.08				-84,155.23
B. Cropland	623.37	3.79	36.67				663.83
C. Grassland	-1,869.93	0.58	0.06				-1,869.29
D. Wetlands	411.98	6.38	0.65				419.00
E. Settlements	-8,356.81	31.00	3.15				-8,322.66
F. Other Land	610.36	9.97	1.01				621.34
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>31,138.92</b>	<b>9,510.87</b>	<b>3,974.72</b>				<b>44,624.51</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,715.30					7,715.30
B. Waste-water Handling		1,732.98	1,261.85				2,994.83
C. Waste Incineration	30,529.80	62.59	2,695.40				33,287.79
D. Other	609.12	IE,NO	17.47				626.59
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	37,361.08	45.77	340.73				37,747.59
Aviation	20,001.55	11.89	197.80				20,211.24
Marine	17,359.53	33.89	142.93				17,536.35
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,556.58</b>						<b>17,556.58</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,308,483.15
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,215,840.14

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.10. 1999 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 1999  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,143,184.88</b>	<b>27,717.44</b>	<b>27,381.10</b>	<b>19,786.80</b>	<b>10,457.62</b>	<b>9,146.41</b>	<b>1,237,674.24</b>
<b>1. Energy</b>	<b>1,147,951.44</b>	<b>2,019.94</b>	<b>8,522.79</b>				<b>1,158,494.18</b>
A. Fuel Combustion (Sectoral Approach)	1,147,913.38	890.21	8,522.68				1,157,326.27
1. Energy Industries	341,336.25	30.75	1,217.82				342,584.81
2. Manufacturing Industries and Construction	360,489.40	282.19	2,265.32				363,036.91
3. Transport	260,040.59	300.95	4,662.58				265,004.11
4. Other Sectors	185,218.21	275.80	358.41				185,852.41
5. Other	828.94	0.52	18.56				848.02
B. Fugitive Emissions from Fuels	38.06	1,129.74	0.12				1,167.92
1. Solid Fuels	NE,NO	865.69	NE,NO				865.69
2. Oil and Natural Gas	38.06	264.05	0.12				302.23
<b>2. Industrial Processes</b>	<b>56,232.58</b>	<b>236.22</b>	<b>2,000.86</b>	<b>19,786.80</b>	<b>10,457.62</b>	<b>9,146.41</b>	<b>97,860.48</b>
A. Mineral Products	51,736.11	NA,NO	NA,NO				51,736.11
B. Chemical Industry	4,241.98	220.14	2,000.86	NA	NA	NA	6,462.98
C. Metal Production	254.49	16.08	NO	NA,NE	29.15	645.30	945.02
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,256.65	1,270.88	1,570.23	17,097.76
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,530.14	9,157.59	6,930.88	21,618.61
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>362.53</b>				<b>362.53</b>
<b>4. Agriculture</b>		<b>16,235.57</b>	<b>12,434.07</b>				<b>28,669.64</b>
A. Enteric Fermentation		7,379.84					7,379.84
B. Manure Management		2,685.52	4,888.02				7,573.54
C. Rice Cultivation		6,062.11					6,062.11
D. Agricultural Soils <sup>(3)</sup>		NA	7,464.10				7,464.10
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		108.11	81.96				190.06
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-92,620.72</b>	<b>53.12</b>	<b>38.49</b>				<b>-92,529.11</b>
A. Forest Land	-84,107.30	5.20	0.53				-84,101.57
B. Cropland	648.85	3.60	33.46				685.90
C. Grassland	-1,746.55	0.55	0.06				-1,745.94
D. Wetlands	381.43	6.04	0.61				388.08
E. Settlements	-8,423.04	26.58	2.70				-8,393.76
F. Other Land	625.90	11.14	1.13				638.18
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>31,621.57</b>	<b>9,172.58</b>	<b>4,022.35</b>				<b>44,816.51</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,421.95					7,421.95
B. Waste-water Handling		1,685.18	1,225.62				2,910.80
C. Waste Incineration	30,969.00	65.46	2,779.17				33,813.63
D. Other	652.58	IE,NO	17.56				670.13
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	36,022.49	43.75	329.04				36,395.28
Aviation	19,576.46	11.63	193.60				19,781.70
Marine	16,446.03	32.11	135.44				16,613.59
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	18,260.06						18,260.06
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,330,203.35
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,237,674.24

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.11. 2000 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2000  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,164,055.59</b>	<b>27,026.59</b>	<b>29,925.15</b>	<b>18,586.00</b>	<b>9,270.99</b>	<b>6,859.12</b>	<b>1,255,723.44</b>
<b>1. Energy</b>	<b>1,166,954.21</b>	<b>1,937.46</b>	<b>8,491.14</b>				<b>1,177,382.80</b>
A. Fuel Combustion (Sectoral Approach)	1,166,918.18	891.54	8,491.03				1,176,300.75
1. Energy Industries	348,484.03	31.01	1,262.55				349,777.58
2. Manufacturing Industries and Construction	372,043.44	294.32	2,285.06				374,622.82
3. Transport	259,204.38	296.29	4,563.08				264,063.76
4. Other Sectors	186,325.79	269.36	361.59				186,956.75
5. Other	860.53	0.56	18.74				879.84
B. Fugitive Emissions from Fuels	36.03	1,045.92	0.11				1,082.06
1. Solid Fuels	NE,NO	769.13	NE,NO				769.13
2. Oil and Natural Gas	36.03	276.79	0.11				312.93
<b>2. Industrial Processes</b>	<b>56,877.08</b>	<b>181.23</b>	<b>4,690.09</b>	<b>18,586.00</b>	<b>9,270.99</b>	<b>6,859.12</b>	<b>96,464.51</b>
A. Mineral Products	52,450.67	NA,NO	NA,NO				52,450.67
B. Chemical Industry	4,177.99	164.40	4,690.09	NA	NA	NA	9,032.47
C. Metal Production	248.42	16.84	NO	NA,NE	17.78	1,027.70	1,310.74
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				12,654.54	1,359.00	896.25	14,909.79
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,931.46	7,894.20	4,935.17	18,760.84
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>340.99</b>				<b>340.99</b>
<b>4. Agriculture</b>		<b>16,056.13</b>	<b>12,352.69</b>				<b>28,408.81</b>
A. Enteric Fermentation		7,346.98					7,346.98
B. Manure Management		2,644.16	4,844.14				7,488.29
C. Rice Cultivation		5,956.45					5,956.45
D. Agricultural Soils <sup>(3)</sup>		NA	7,427.37				7,427.37
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		108.54	81.18				189.71
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-92,680.03</b>	<b>46.90</b>	<b>34.09</b>				<b>-92,599.04</b>
A. Forest Land	-84,042.57	7.75	0.79				-84,034.03
B. Cropland	531.59	1.91	29.53				563.03
C. Grassland	-1,630.97	0.29	0.03				-1,630.65
D. Wetlands	404.57	5.74	0.58				410.89
E. Settlements	-8,433.45	22.95	2.33				-8,408.17
F. Other Land	490.80	8.25	0.84				499.89
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>32,904.33</b>	<b>8,804.88</b>	<b>4,016.15</b>				<b>45,725.36</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,091.89					7,091.89
B. Waste-water Handling		1,636.85	1,213.62				2,850.47
C. Waste Incineration	32,248.42	76.13	2,783.87				35,108.42
D. Other	655.91	IE,NO	18.66				674.57
<b>7. Other (as specified in Summary 1.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	36,731.88	45.17	333.30				37,110.35
Aviation	19,542.61	11.61	191.78				19,746.00
Marine	17,189.28	33.55	141.52				17,364.35
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,846.04</b>						<b>18,846.04</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,348,322.48
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,255,723.44

(1) For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary 1.A.

## 9.12. 2001 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2001  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,148,258.00</b>	<b>26,236.55</b>	<b>26,472.35</b>	<b>15,837.50</b>	<b>7,802.20</b>	<b>5,719.28</b>	<b>1,230,325.88</b>
<b>1. Energy</b>	<b>1,153,330.96</b>	<b>1,719.07</b>	<b>8,475.81</b>				<b>1,163,525.84</b>
A. Fuel Combustion (Sectoral Approach)	1,153,298.52	876.60	8,475.71				1,162,650.83
1. Energy Industries	340,210.70	30.69	1,289.16				341,530.55
2. Manufacturing Industries and Construction	361,924.93	284.81	2,424.15				364,633.89
3. Transport	261,752.88	291.14	4,380.46				266,424.48
4. Other Sectors	188,523.44	269.39	363.04				189,155.86
5. Other	886.57	0.57	18.90				906.05
B. Fugitive Emissions from Fuels	32.44	842.47	0.10				875.00
1. Solid Fuels	NE,NO	570.30	NE,NO				570.30
2. Oil and Natural Gas	32.44	272.17	0.10				304.71
<b>2. Industrial Processes</b>	<b>54,745.15</b>	<b>147.48</b>	<b>1,414.89</b>	<b>15,837.50</b>	<b>7,802.20</b>	<b>5,719.28</b>	<b>85,666.50</b>
A. Mineral Products	50,677.44	NA,NO	NA,NO				50,677.44
B. Chemical Industry	3,857.00	131.64	1,414.89	NA	NA	NA	5,403.52
C. Metal Production	210.71	15.84	NO	NA,NE	15.70	1,147.20	1,389.46
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				9,709.27	1,082.60	829.33	11,621.20
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,128.23	6,703.90	3,742.75	16,574.88
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>343.60</b>				<b>343.60</b>
<b>4. Agriculture</b>		<b>15,887.43</b>	<b>12,261.70</b>				<b>28,149.13</b>
A. Enteric Fermentation		7,309.83					7,309.83
B. Manure Management		2,622.92	4,807.13				7,430.05
C. Rice Cultivation		5,846.25					5,846.25
D. Agricultural Soils <sup>(3)</sup>		NA	7,374.65				7,374.65
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		108.43	79.92				188.35
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-92,458.35</b>	<b>50.07</b>	<b>31.27</b>				<b>-92,377.01</b>
A. Forest Land	-83,983.58	12.34	1.25				-83,969.98
B. Cropland	422.58	1.38	26.33				450.29
C. Grassland	-1,538.45	0.21	0.02				-1,538.22
D. Wetlands	411.73	5.87	0.60				418.19
E. Settlements	-8,322.66	21.28	2.16				-8,299.22
F. Other Land	552.04	8.98	0.91				561.92
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>32,640.24</b>	<b>8,432.51</b>	<b>3,945.07</b>				<b>45,017.82</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,786.33					6,786.33
B. Waste-water Handling		1,584.17	1,196.01				2,780.18
C. Waste Incineration	32,009.71	62.01	2,728.71				34,800.44
D. Other	630.53	IE,NO	20.35				650.88
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	33,571.42	40.10	305.92				33,917.44
Aviation	18,721.34	11.13	183.72				18,916.19
Marine	14,850.08	28.97	122.20				15,001.25
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	17,203.99						17,203.99
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,322,702.89
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,230,325.88

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.13. 2002 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2002  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,176,029.02</b>	<b>25,271.23</b>	<b>26,134.87</b>	<b>13,148.14</b>	<b>7,054.21</b>	<b>5,378.56</b>	<b>1,253,016.03</b>
<b>I. Energy</b>	<b>1,193,049.49</b>	<b>1,296.39</b>	<b>8,294.60</b>				<b>1,202,640.49</b>
A. Fuel Combustion (Sectoral Approach)	1,193,018.55	883.67	8,294.51				1,202,196.73
1. Energy Industries	371,369.42	32.31	1,346.47				372,748.20
2. Manufacturing Industries and Construction	368,803.31	288.05	2,436.71				371,528.06
3. Transport	256,577.32	281.91	4,116.87				260,976.10
4. Other Sectors	195,399.01	280.82	375.68				196,055.51
5. Other	869.50	0.59	18.77				888.86
B. Fugitive Emissions from Fuels	30.94	412.72	0.10				443.75
1. Solid Fuels	NE,NO	118.34	NE,NO				118.34
2. Oil and Natural Gas	30.94	294.38	0.10				325.42
<b>2. Industrial Processes</b>	<b>52,613.11</b>	<b>141.64</b>	<b>1,238.77</b>	<b>13,148.14</b>	<b>7,054.21</b>	<b>5,378.56</b>	<b>79,574.44</b>
A. Mineral Products	48,735.04	NA,NO	NA,NO				48,735.04
B. Chemical Industry	3,657.13	125.00	1,238.77	NA	NA	NA	5,020.90
C. Metal Production	220.95	16.64	NO	NA,NE	14.82	1,123.30	1,375.71
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				6,452.46	1,009.92	932.10	8,394.48
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,695.68	6,029.47	3,323.16	16,048.31
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>334.05</b>				<b>334.05</b>
<b>4. Agriculture</b>		<b>15,716.69</b>	<b>12,214.37</b>				<b>27,931.06</b>
A. Enteric Fermentation		7,278.71					7,278.71
B. Manure Management		2,604.77	4,779.78				7,384.54
C. Rice Cultivation		5,729.23					5,729.23
D. Agricultural Soils <sup>(3)</sup>		NA	7,357.11				7,357.11
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		103.98	77.47				181.45
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-102,588.85</b>	<b>43.23</b>	<b>27.88</b>				<b>-102,517.74</b>
A. Forest Land	-93,489.38	20.53	2.08				-93,466.76
B. Cropland	373.33	1.28	23.63				398.24
C. Grassland	-1,490.49	0.20	0.02				-1,490.27
D. Wetlands	234.48	1.71	0.17				236.36
E. Settlements	-8,639.06	11.69	1.19				-8,626.18
F. Other Land	422.26	7.82	0.79				430.87
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>32,955.27</b>	<b>8,073.27</b>	<b>4,025.19</b>				<b>45,053.73</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,474.77					6,474.77
B. Waste-water Handling		1,535.47	1,182.91				2,718.38
C. Waste Incineration	32,378.22	63.03	2,822.93				35,264.18
D. Other	577.05	IE,NO	19.35				596.40
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	36,728.93	42.96	335.74				37,107.63
Aviation	21,149.32	12.57	207.55				21,369.44
Marine	15,579.61	30.39	128.19				15,738.19
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>17,917.38</b>						<b>17,917.38</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,355,533.76
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,253,016.03

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.14. 2003 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2003  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,183,663.39</b>	<b>24,770.33</b>	<b>25,911.38</b>	<b>12,519.01</b>	<b>6,820.59</b>	<b>4,822.43</b>	<b>1,258,507.12</b>
<b>1. Energy</b>	<b>1,198,319.96</b>	<b>1,236.78</b>	<b>8,042.74</b>				<b>1,207,599.48</b>
A. Fuel Combustion (Sectoral Approach)	1,198,285.50	839.09	8,042.63				1,207,167.22
1. Energy Industries	385,208.36	32.97	1,383.48				386,624.81
2. Manufacturing Industries and Construction	369,126.71	288.24	2,435.08				371,850.03
3. Transport	254,503.21	271.91	3,847.64				258,622.75
4. Other Sectors	188,579.18	245.36	357.69				189,182.23
5. Other	868.04	0.61	18.75				887.40
B. Fugitive Emissions from Fuels	34.46	397.69	0.11				432.26
1. Solid Fuels	NE,NO	93.86	NE,NO				93.86
2. Oil and Natural Gas	34.46	303.83	0.11				338.39
<b>2. Industrial Processes</b>	<b>52,253.05</b>	<b>133.88</b>	<b>1,259.55</b>	<b>12,519.01</b>	<b>6,820.59</b>	<b>4,822.43</b>	<b>77,808.51</b>
A. Mineral Products	48,603.05	NA,NO	NA,NO				48,603.05
B. Chemical Industry	3,408.43	117.38	1,259.55	NA	NA	NA	4,785.36
C. Metal Production	241.57	16.50	NO	NA,NE	15.11	1,013.07	1,286.26
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				5,453.01	965.60	889.08	7,307.69
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				7,066.00	5,839.88	2,920.28	15,826.15
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>320.83</b>				<b>320.83</b>
<b>4. Agriculture</b>		<b>15,589.94</b>	<b>12,155.50</b>				<b>27,745.43</b>
A. Enteric Fermentation		7,185.53					7,185.53
B. Manure Management		2,576.73	4,752.81				7,329.54
C. Rice Cultivation		5,725.83					5,725.83
D. Agricultural Soils <sup>(3)</sup>		NA	7,327.97				7,327.97
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		101.85	74.72				176.57
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-102,540.08</b>	<b>24.46</b>	<b>23.80</b>				<b>-102,491.82</b>
A. Forest Land	-93,478.28	3.90	0.40				-93,473.99
B. Cropland	353.52	1.56	21.47				376.55
C. Grassland	-1,402.88	0.24	0.02				-1,402.61
D. Wetlands	183.48	1.15	0.12				184.75
E. Settlements	-8,499.38	11.35	1.15				-8,486.88
F. Other Land	303.46	6.27	0.64				310.36
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>35,630.46</b>	<b>7,785.28</b>	<b>4,108.96</b>				<b>47,524.70</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,212.32					6,212.32
B. Waste-water Handling		1,492.08	1,187.68				2,679.76
C. Waste Incineration	35,113.93	80.87	2,901.98				38,096.78
D. Other	516.53	IE,NO	19.31				535.84
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	37,506.71	45.52	340.95				37,893.18
Aviation	20,387.64	12.12	200.08				20,599.83
Marine	17,119.07	33.40	140.87				17,293.34
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	18,296.55						18,296.55
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,360,998.95
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,258,507.12

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.15. 2004 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2004  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,182,150.61</b>	<b>24,384.85</b>	<b>25,975.80</b>	<b>8,349.79</b>	<b>7,046.19</b>	<b>4,581.87</b>	<b>1,252,489.11</b>
<b>I. Energy</b>	<b>1,198,728.97</b>	<b>1,213.69</b>	<b>7,776.31</b>				<b>1,207,718.97</b>
A. Fuel Combustion (Sectoral Approach)	1,198,693.97	829.96	7,776.20				1,207,300.14
1. Energy Industries	381,734.58	32.08	1,395.29				383,161.95
2. Manufacturing Industries and Construction	374,636.35	290.22	2,460.67				377,387.24
3. Transport	254,453.45	254.49	3,543.86				258,251.80
4. Other Sectors	187,035.15	252.52	357.87				187,645.54
5. Other	834.45	0.65	18.50				853.61
B. Fugitive Emissions from Fuels	34.99	383.73	0.11				418.83
1. Solid Fuels	NE,NO	66.51	NE,NO				66.51
2. Oil and Natural Gas	34.99	317.21	0.11				352.32
<b>2. Industrial Processes</b>	<b>52,598.31</b>	<b>143.47</b>	<b>1,657.60</b>	<b>8,349.79</b>	<b>7,046.19</b>	<b>4,581.87</b>	<b>74,377.23</b>
A. Mineral Products	48,881.20	NA,NO	NA,NO				48,881.20
B. Chemical Industry	3,459.28	126.46	1,657.60	NA	NA	NA	5,243.34
C. Metal Production	257.84	17.01	NO	NA,NE	14.79	966.76	1,256.40
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				1,466.82	866.84	872.35	3,206.01
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,882.97	6,164.55	2,742.77	15,790.29
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>297.54</b>				<b>297.54</b>
<b>4. Agriculture</b>		<b>15,493.64</b>	<b>12,089.69</b>				<b>27,583.33</b>
A. Enteric Fermentation		7,106.54					7,106.54
B. Manure Management		2,538.36	4,723.05				7,261.41
C. Rice Cultivation		5,747.41					5,747.41
D. Agricultural Soils <sup>(3)</sup>		NA	7,293.01				7,293.01
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		101.33	73.63				174.95
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-102,268.67</b>	<b>32.95</b>	<b>22.15</b>				<b>-102,213.57</b>
A. Forest Land	-93,455.01	12.12	1.23				-93,441.67
B. Cropland	317.28	1.45	18.95				337.68
C. Grassland	-1,309.94	0.22	0.02				-1,309.69
D. Wetlands	151.35	1.05	0.11				152.50
E. Settlements	-8,233.49	11.65	1.18				-8,220.66
F. Other Land	261.15	6.46	0.66				268.27
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>33,091.99</b>	<b>7,501.11</b>	<b>4,132.50</b>				<b>44,725.60</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,961.87					5,961.87
B. Waste-water Handling		1,455.90	1,195.89				2,651.79
C. Waste Incineration	32,585.29	83.34	2,917.60				35,586.24
D. Other	506.70	IE,NO	19.01				525.71
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	39,113.12	47.56	355.43				39,516.11
Aviation	21,190.20	12.59	207.95				21,410.75
Marine	17,922.92	34.97	147.47				18,105.36
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>18,188.62</b>						<b>18,188.62</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,354,702.68
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,252,489.11

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.

## 9.16. 2005 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2005  
Submission 2008 v.1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,194,665.05</b>	<b>23,965.96</b>	<b>25,586.16</b>	<b>7,259.68</b>	<b>6,489.53</b>	<b>4,227.89</b>	<b>1,262,194.26</b>
<b>1. Energy</b>	<b>1,203,138.24</b>	<b>1,221.08</b>	<b>7,749.71</b>				<b>1,212,109.03</b>
A. Fuel Combustion (Sectoral Approach)	1,203,100.64	811.56	7,749.59				1,211,661.79
1. Energy Industries	397,271.54	31.65	1,429.71				398,732.91
2. Manufacturing Industries and Construction	367,263.38	281.43	2,713.48				370,258.29
3. Transport	249,605.21	243.94	3,229.93				253,079.08
4. Other Sectors	188,067.43	253.82	357.62				188,678.87
5. Other	893.08	0.71	18.86				912.65
B. Fugitive Emissions from Fuels	37.60	409.52	0.12				447.24
1. Solid Fuels	NE,NO	73.56	NE,NO				73.56
2. Oil and Natural Gas	37.60	335.96	0.12				373.68
<b>2. Industrial Processes</b>	<b>53,905.64</b>	<b>133.78</b>	<b>1,299.94</b>	<b>7,259.68</b>	<b>6,489.53</b>	<b>4,227.89</b>	<b>73,316.45</b>
A. Mineral Products	50,479.01	NA,NO	NA,NO				50,479.01
B. Chemical Industry	3,184.71	116.89	1,299.94	NA	NA	NA	4,601.54
C. Metal Production	241.93	16.89	NO	NA,NE	14.80	956.00	1,229.62
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				809.92	706.72	1,046.82	2,563.46
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,449.76	5,768.00	2,225.07	14,442.83
G. Other	NO	NO	NO	NA,NO	NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>266.41</b>				<b>266.41</b>
<b>4. Agriculture</b>		<b>15,418.93</b>	<b>12,024.11</b>				<b>27,443.04</b>
A. Enteric Fermentation		7,043.20					7,043.20
B. Manure Management		2,499.04	4,720.62				7,219.65
C. Rice Cultivation		5,774.68					5,774.68
D. Agricultural Soils <sup>(3)</sup>		NA	7,230.32				7,230.32
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		102.01	73.18				175.19
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-95,926.36</b>	<b>36.00</b>	<b>19.87</b>				<b>-95,870.49</b>
A. Forest Land	-87,500.38	9.14	0.93				-87,490.31
B. Cropland	263.44	1.37	16.35				281.17
C. Grassland	-1,226.55	0.21	0.02				-1,226.31
D. Wetlands	136.95	1.04	0.11				138.09
E. Settlements	-7,845.93	18.87	1.92				-7,825.15
F. Other Land	246.11	5.36	0.54				252.01
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>33,547.52</b>	<b>7,156.18</b>	<b>4,226.12</b>				<b>44,929.82</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,667.35					5,667.35
B. Waste-water Handling		1,405.88	1,168.61				2,574.49
C. Waste Incineration	33,040.71	82.95	3,037.38				36,161.04
D. Other	506.81	IE,NO	20.13				526.94
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
International Bunkers	41,564.88	52.15	375.86				41,992.88
Aviation	21,336.33	12.68	209.39				21,558.39
Marine	20,228.55	39.47	166.47				20,434.49
Multilateral Operations	NO	NO	NO				NO
CO <sub>2</sub> Emissions from Biomass	21,743.30						21,743.30
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,358,064.76
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,262,194.26

(1) For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

(2) Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

(3) Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

(4) See footnote 8 to table Summary I.A.



## 9.17. 2006 年の排出量及び吸収量

SUMMARY 2 SUMMARY REPORT FOR CO<sub>2</sub> EQUIVALENT EMISSIONS  
(Sheet 1 of 1)Inventory 2006  
Submission 2008 v1.1  
JAPAN

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub> <sup>(1)</sup>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs <sup>(2)</sup>	PFCs <sup>(2)</sup>	SF <sub>6</sub> <sup>(2)</sup>	Total
	CO <sub>2</sub> equivalent (Gg)						
<b>Total (Net Emissions)<sup>(1)</sup></b>	<b>1,182,050.70</b>	<b>23,663.48</b>	<b>25,575.79</b>	<b>6,618.01</b>	<b>6,323.13</b>	<b>4,348.58</b>	<b>1,248,579.68</b>
<b>I. Energy</b>	<b>1,185,909.52</b>	<b>1,267.84</b>	<b>7,524.95</b>				<b>1,194,702.30</b>
A. Fuel Combustion (Sectoral Approach)	1,185,873.63	841.48	7,524.83				1,194,239.95
1. Energy Industries	387,049.16	33.70	1,426.60				388,509.45
2. Manufacturing Industries and Construction	373,821.30	293.10	2,733.11				376,847.51
3. Transport	246,802.13	234.31	3,003.34				250,039.78
4. Other Sectors	177,235.14	279.53	342.52				177,857.19
5. Other	965.91	0.84	19.26				986.01
B. Fugitive Emissions from Fuels	35.89	426.35	0.11				462.36
1. Solid Fuels	NE,NO	68.12	NE,NO				68.12
2. Oil and Natural Gas	35.89	358.24	0.11				394.24
<b>2. Industrial Processes</b>	<b>53,885.01</b>	<b>133.03</b>	<b>1,624.72</b>	<b>6,618.01</b>	<b>6,323.13</b>	<b>4,348.58</b>	<b>72,932.48</b>
A. Mineral Products	50,514.30	NA,NO	NA,NO				50,514.30
B. Chemical Industry	3,200.36	115.87	1,624.72	NA	NA	NA	4,940.95
C. Metal Production	170.36	17.16	NO	NA,NE	14.82	908.20	1,110.54
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				931.80	864.84	1,508.09	3,304.73
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,686.21	5,443.46	1,932.29	13,061.97
G. Other	NO	NO	NO	NA,NO	NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>266.41</b>				<b>266.41</b>
<b>4. Agriculture</b>		<b>15,351.61</b>	<b>12,016.57</b>				<b>27,368.18</b>
A. Enteric Fermentation		7,035.23					7,035.23
B. Manure Management		2,471.35	4,733.21				7,204.56
C. Rice Cultivation		5,742.87					5,742.87
D. Agricultural Soils <sup>(3)</sup>		NA	7,209.78				7,209.78
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		102.17	73.58				175.75
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-91,544.01</b>	<b>26.13</b>	<b>16.96</b>				<b>-91,500.92</b>
A. Forest Land	-83,388.63	2.48	0.25				-83,385.90
B. Cropland	307.27	1.97	14.51				323.75
C. Grassland	-1,138.75	0.31	0.03				-1,138.41
D. Wetlands	181.39	1.27	0.13				182.79
E. Settlements	-7,808.61	12.54	1.27				-7,794.79
F. Other Land	303.31	7.56	0.77				311.64
G. Other	NE	NE	NE				NE
<b>6. Waste</b>	<b>33,800.17</b>	<b>6,884.87</b>	<b>4,126.18</b>				<b>44,811.21</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,392.22					5,392.22
B. Waste-water Handling		1,409.28	1,177.81				2,587.09
C. Waste Incineration	33,278.97	83.37	2,924.81				36,287.16
D. Other	521.20	IE,NO	23.55				544.74
<b>7. Other (as specified in Summary I.A)</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA,NO</b>	<b>NA</b>	<b>NA</b>	<b>NA,NO</b>	<b>NA,NO</b>
<b>Memo Items:<sup>(4)</sup></b>							
<b>International Bunkers</b>	38,835.02	48.90	350.96				39,234.88
Aviation	19,807.71	11.77	194.39				20,013.87
Marine	19,027.31	37.12	156.58				19,221.01
<b>Multilateral Operations</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>				<b>NO</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>21,976.73</b>						<b>21,976.73</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,340,080.59
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,248,579.68

<sup>(1)</sup> For CO<sub>2</sub> from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

<sup>(2)</sup> Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

<sup>(3)</sup> Parties which previously reported CO<sub>2</sub> from soils in the Agriculture sector should note this in the NIR.

<sup>(4)</sup> See footnote 8 to table Summary I.A.



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