

## 別添 (Annex) 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。

A9.1. 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 2011 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>1,071,520.21</b>	<b>31,909.66</b>	<b>31,706.03</b>	<b>17,930.00</b>	<b>5,670.00</b>	<b>38,240.00</b>	<b>1,196,975.91</b>
<b>1. Energy</b>	<b>1,068,296.26</b>	<b>3,927.00</b>	<b>6,778.53</b>				<b>1,079,001.79</b>
A. Fuel Combustion (Sectoral Approach)	1,068,259.64	889.86	6,778.42				1,075,927.91
1. Energy Industries	324,253.21	29.72	926.82				325,209.76
2. Manufacturing Industries and Construction	371,311.49	355.49	1,373.68				373,040.66
3. Transport	211,053.69	297.23	4,204.42				215,555.34
4. Other Sectors	161,641.24	207.42	273.50				162,122.16
5. Other	NO	NO	NO				NO
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>59,934.01</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>130,398.54</b>
A. Mineral Products	55,368.85	NA,NO	NA,NO				55,368.85
B. Chemical Industry	4,209.07	338.22	8,266.95	NA	NA	NA	12,814.24
C. Metal Production	356.09	19.36	NO	IE,NE	IE,NA,NE	IE,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>17,831.10</b>	<b>13,463.55</b>				<b>31,294.64</b>
A. Enteric Fermentation		7,676.61					7,676.61
B. Manure Management		3,094.12	5,533.01				8,627.13
C. Rice Cultivation		6,959.68					6,959.68
D. Agricultural Soils <sup>(3)</sup>		NA	7,897.89				7,897.89
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		100.68	32.65				133.32
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry <sup>(1)</sup></b>	<b>-69,675.83</b>	<b>8.31</b>	<b>90.86</b>				<b>-69,576.66</b>
A. Forest Land	-78,636.21	8.31	0.84				-78,627.05
B. Cropland	2,532.77	NE,NO	90.02				2,622.79
C. Grassland	-441.28	NE,NO	NE,NO				-441.28
D. Wetlands	86.72	NE,NO	NE,NO				86.72
E. Settlements	4,664.64	NE,NO	NE,NO				4,664.64
F. Other Land	1,567.30	NO	NO				1,567.30
G. Other	550.22	NA,NE	NA,NE				550.22
<b>6. Waste</b>	<b>12,965.78</b>	<b>9,785.67</b>	<b>2,819.08</b>				<b>25,570.53</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,639.75					7,639.75
B. Waste-water Handling		2,117.96	1,286.81				3,404.77
C. Waste Incineration	12,262.95	13.48	1,519.44				13,795.87
D. Other	702.83	14.48	12.83				730.14
<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>	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							1,266,552.57
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,196,975.91

<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>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

A9.2. 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 2011 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>1,073,189.32</b>	<b>31,669.89</b>	<b>31,193.94</b>	<b>18,070.00</b>	<b>6,370.00</b>	<b>43,498.00</b>	<b>1,203,991.15</b>
<b>1. Energy</b>	<b>1,076,104.87</b>	<b>3,690.74</b>	<b>7,061.09</b>				<b>1,086,856.70</b>
A. Fuel Combustion (Sectoral Approach)	1,076,051.20	895.98	7,060.93				1,084,008.11
1. Energy Industries	326,986.60	31.16	959.89				327,977.66
2. Manufacturing Industries and Construction	366,282.86	356.15	1,453.74				368,092.74
3. Transport	222,466.79	299.61	4,367.41				227,133.82
4. Other Sectors	160,314.95	209.06	279.89				160,803.90
5. Other	NO	NO	NO				NO
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>61,027.71</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>136,852.96</b>
A. Mineral Products	56,520.30	NA,NO	NA,NO				56,520.30
B. Chemical Industry	4,184.37	329.15	7,539.75	NA	NA	NA	12,053.27
C. Metal Production	323.04	18.34	NO	IE,NE	IE,NA,NE	IE,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>356.85</b>				<b>356.85</b>
<b>4. Agriculture</b>		<b>17,955.09</b>	<b>13,270.98</b>				<b>31,226.06</b>
A. Enteric Fermentation		7,787.92					7,787.92
B. Manure Management		3,089.18	5,501.83				8,591.01
C. Rice Cultivation		6,977.75					6,977.75
D. Agricultural Soils <sup>(3)</sup>		NA	7,736.49				7,736.49
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		100.24	32.66				132.90
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-76,927.83</b>	<b>6.22</b>	<b>84.80</b>				<b>-76,836.81</b>
A. Forest Land	-85,984.13	6.22	0.63				-85,977.28
B. Cropland	1,651.35	NE,NO	84.17				1,735.52
C. Grassland	-521.87	NE,NO	NE,NO				-521.87
D. Wetlands	78.26	NE,NO	NE,NO				78.26
E. Settlements	5,571.84	NE,NO	NE,NO				5,571.84
F. Other Land	1,749.44	NO	NO				1,749.44
G. Other	527.29	NA,NE	NA,NE				527.29
<b>6. Waste</b>	<b>12,984.57</b>	<b>9,670.35</b>	<b>2,880.48</b>				<b>25,535.40</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,569.93					7,569.93
B. Waste-water Handling		2,075.74	1,309.01				3,384.75
C. Waste Incineration	12,298.12	13.08	1,561.19				13,872.39
D. Other	686.45	11.60	10.28				708.32
<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>	<b>32,531.98</b>	<b>44.64</b>	<b>291.02</b>				<b>32,867.64</b>
Aviation	13,919.12	8.27	137.65				14,065.05
Marine	18,612.86	36.36	153.37				18,802.60
<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>18,870.94</b>						<b>18,870.94</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,280,827.96
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,203,991.15

<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 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

A9.3. 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 2011 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>1,081,951.12</b>	<b>31,404.63</b>	<b>31,348.39</b>	<b>19,750.00</b>	<b>6,370.00</b>	<b>47,800.00</b>	<b>1,218,624.14</b>
<b>1. Energy</b>	<b>1,083,526.98</b>	<b>3,438.11</b>	<b>7,257.04</b>				<b>1,094,222.12</b>
A. Fuel Combustion (Sectoral Approach)	1,083,470.03	910.77	7,256.86				1,091,637.66
1. Energy Industries	333,717.45	31.85	931.52				334,680.82
2. Manufacturing Industries and Construction	358,404.85	352.17	1,571.52				360,328.54
3. Transport	226,859.69	302.67	4,459.34				231,621.71
4. Other Sectors	164,488.04	224.07	294.48				165,006.59
5. Other	NO	NO	NO				NO
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>61,026.54</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>142,721.16</b>
A. Mineral Products	56,600.40	NA,NO	NA,NO				56,600.40
B. Chemical Industry	4,101.09	304.45	7,452.41	NA	NA	NA	11,857.96
C. Metal Production	325.05	17.76	NO	IE,NE	IE,NA,NE	IE,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>18,044.60</b>	<b>13,141.65</b>				<b>31,186.25</b>
A. Enteric Fermentation		7,830.18					7,830.18
B. Manure Management		3,061.96	5,457.83				8,519.79
C. Rice Cultivation		7,059.04					7,059.04
D. Agricultural Soils <sup>(3)</sup>		NA	7,653.03				7,653.03
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues			93.42	30.79			124.21
G. Other			NO	NO			NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-76,626.63</b>	<b>4.34</b>	<b>79.83</b>				<b>-76,542.46</b>
A. Forest Land	-86,327.89	4.34	0.44				-86,323.11
B. Cropland	1,746.62	NE,NO	79.39				1,826.01
C. Grassland	-465.57	NE,NO	NE,NO				-465.57
D. Wetlands	248.68	NE,NO	NE,NO				248.68
E. Settlements	6,259.38	NE,NO	NE,NO				6,259.38
F. Other Land	1,435.05	NO	NO				1,435.05
G. Other	477.11	NA,NE	NA,NE				477.11
<b>6. Waste</b>	<b>14,024.24</b>	<b>9,595.37</b>	<b>3,004.45</b>				<b>26,624.06</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,533.47					7,533.47
B. Waste-water Handling		2,036.55	1,294.27				3,330.82
C. Waste Incineration	13,325.34	13.43	1,699.63				15,038.41
D. Other	698.90	11.91	10.55				721.37
<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							1,295,166.60
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,218,624.14

<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 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

A9.4. 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 2011 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>1,071,408.89</b>	<b>31,153.23</b>	<b>31,099.48</b>	<b>21,310.00</b>	<b>8,860.00</b>	<b>45,410.00</b>	<b>1,209,241.61</b>
<b>1. Energy</b>	<b>1,077,164.28</b>	<b>3,268.92</b>	<b>7,311.16</b>				<b>1,087,744.36</b>
A. Fuel Combustion (Sectoral Approach)	1,077,111.06	929.70	7,311.00				1,085,351.76
1. Energy Industries	315,598.93	31.64	939.88				316,570.45
2. Manufacturing Industries and Construction	357,499.46	352.95	1,615.27				359,467.67
3. Transport	231,727.93	295.51	4,432.21				236,455.65
4. Other Sectors	172,284.75	249.59	323.64				172,857.98
5. Other	NO	NO	NO				NO
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>59,959.49</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>143,162.89</b>
A. Mineral Products	55,733.90	NA,NO	NA,NO				55,733.90
B. Chemical Industry	3,894.83	303.85	7,302.85	NA	NA	NA	11,501.53
C. Metal Production	330.76	16.70	NO	IE,NE	IE,NA,NE	IE,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>411.66</b>				<b>411.66</b>
<b>4. Agriculture</b>		<b>18,127.86</b>	<b>12,984.96</b>				<b>31,112.82</b>
A. Enteric Fermentation		7,781.42					7,781.42
B. Manure Management		3,002.79	5,364.14				8,366.93
C. Rice Cultivation		7,247.60					7,247.60
D. Agricultural Soils <sup>(3)</sup>		NA	7,588.86				7,588.86
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues		96.05	31.97				128.02
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-79,488.92</b>	<b>23.91</b>	<b>76.16</b>				<b>-79,388.85</b>
A. Forest Land	-86,671.65	23.91	2.43				-86,645.31
B. Cropland	931.02	NE,NO	73.73				1,004.75
C. Grassland	-539.60	NE,NO	NE,NO				-539.60
D. Wetlands	139.59	NE,NO	NE,NO				139.59
E. Settlements	4,401.59	NE,NO	NE,NO				4,401.59
F. Other Land	1,768.57	NO	NO				1,768.57
G. Other	481.56	NA,NE	NA,NE				481.56
<b>6. Waste</b>	<b>13,774.05</b>	<b>9,411.99</b>	<b>3,012.69</b>				<b>26,198.72</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,400.77					7,400.77
B. Waste-water Handling		1,985.41	1,298.13				3,283.54
C. Waste Incineration	13,093.30	13.36	1,703.54				14,810.19
D. Other	680.75	12.45	11.03				704.22
<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>	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
<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>17,568.73</b>						<b>17,568.73</b>

Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry	1,288,630.46
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry	1,209,241.61

(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.

<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

A9.5. 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 2011 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>1,129,465.89</b>	<b>30,470.74</b>	<b>32,264.48</b>	<b>28,840.00</b>	<b>12,274.00</b>	<b>45,410.00</b>	<b>1,278,725.11</b>
<b>1. Energy</b>	<b>1,133,210.28</b>	<b>2,907.80</b>	<b>7,611.05</b>				<b>1,143,729.13</b>
A. Fuel Combustion (Sectoral Approach)	1,133,159.13	928.26	7,610.90				1,141,698.29
1. Energy Industries	356,359.51	33.79	1,011.78				357,405.09
2. Manufacturing Industries and Construction	365,878.17	361.90	1,758.80				367,998.87
3. Transport	243,681.03	297.21	4,513.41				248,491.64
4. Other Sectors	167,240.42	235.36	326.91				167,802.69
5. Other	NO	NO	NO				NO
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>61,189.78</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>156,332.74</b>
A. Mineral Products	56,698.93	NA,NO	NA,NO				56,698.93
B. Chemical Industry	4,145.10	303.40	8,298.10	NA	NA	NA	12,746.60
C. Metal Production	345.76	17.45	NO	IE,NE	IE,NA,NE	IE,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>17,990.78</b>	<b>12,708.49</b>				<b>30,699.27</b>
A. Enteric Fermentation		7,691.88					7,691.88
B. Manure Management		2,942.69	5,250.91				8,193.60
C. Rice Cultivation		7,263.40					7,263.40
D. Agricultural Soils <sup>(3)</sup>		NA	7,426.42				7,426.42
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues		92.82	31.15				123.97
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-81,203.08</b>	<b>17.75</b>	<b>69.79</b>				<b>-81,115.54</b>
A. Forest Land	-87,015.40	17.75	1.80				-86,995.85
B. Cropland	881.33	NE,NO	67.99				949.32
C. Grassland	-507.62	NE,NO	NE,NO				-507.62
D. Wetlands	116.81	NE,NO	NE,NO				116.81
E. Settlements	3,363.06	NE,NO	NE,NO				3,363.06
F. Other Land	1,666.01	NO	NO				1,666.01
G. Other	292.73	NA,NE	NA,NE				292.73
<b>6. Waste</b>	<b>16,268.90</b>	<b>9,233.56</b>	<b>3,139.03</b>				<b>28,641.50</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,288.13					7,288.13
B. Waste-water Handling		1,919.78	1,261.42				3,181.21
C. Waste Incineration	15,566.99	14.49	1,867.73				17,449.21
D. Other	701.91	11.15	9.88				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>	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
<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>17,803.39</b>						<b>17,803.39</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,359,840.65
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,278,725.11

<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 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

## A9.6. 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 2011 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>1,142,109.93</b>	<b>29,614.03</b>	<b>32,718.60</b>	<b>20,260.17</b>	<b>14,240.36</b>	<b>16,961.45</b>	<b>1,255,904.54</b>
<b>1. Energy</b>	<b>1,145,820.01</b>	<b>2,647.39</b>	<b>8,346.53</b>				<b>1,156,813.93</b>
A. Fuel Combustion (Sectoral Approach)	1,145,769.09	1,037.51	8,346.38				1,155,152.98
1. Energy Industries	344,948.18	34.41	1,432.52				346,415.12
2. Manufacturing Industries and Construction	370,539.38	437.59	1,915.66				372,892.64
3. Transport	251,166.53	308.40	4,649.84				256,124.77
4. Other Sectors	179,115.00	257.11	348.35				179,720.46
5. Other	NO	NO	NO				NO
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>61,338.27</b>	<b>322.37</b>	<b>8,212.71</b>	<b>20,260.17</b>	<b>14,240.36</b>	<b>16,961.45</b>	<b>121,335.34</b>
A. Mineral Products	56,761.48	NA,NO	NA,NO				56,761.48
B. Chemical Industry	4,219.57	304.45	8,212.71	NA	NA	NA	12,736.73
C. Metal Production	357.22	17.92	NO	IE,NE	69.74	119.50	564.38
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				17,445.12	762.85	4,708.30	22,916.27
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				2,815.05	13,407.78	12,133.65	28,356.48
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>17,676.22</b>	<b>12,393.98</b>				<b>30,070.21</b>
A. Enteric Fermentation		7,606.43					7,606.43
B. Manure Management		2,893.04	5,151.97				8,045.01
C. Rice Cultivation		7,082.74					7,082.74
D. Agricultural Soils <sup>(3)</sup>		NA	7,210.41				7,210.41
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues			94.01	31.61			125.62
G. Other		NO	NO	NO			NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-81,582.75</b>	<b>8.66</b>	<b>61.58</b>				<b>-81,512.51</b>
A. Forest Land	-87,359.16	8.66	0.88				-87,349.63
B. Cropland	825.54	NE,NO	60.71				886.25
C. Grassland	-480.65	NE,NO	NE,NO				-480.65
D. Wetlands	362.83	NE,NO	NE,NO				362.83
E. Settlements	3,278.38	NE,NO	NE,NO				3,278.38
F. Other Land	1,486.82	NO	NO				1,486.82
G. Other	303.50	NA,NE	NA,NE				303.50
<b>6. Waste</b>	<b>16,534.40</b>	<b>8,959.39</b>	<b>3,266.21</b>				<b>28,760.00</b>
A. Solid Waste Disposal on Land	NA,NE,NO	7,073.71					7,073.71
B. Waste-water Handling		1,859.33	1,243.89				3,103.22
C. Waste Incineration	15,866.57	14.87	2,012.15				17,893.59
D. Other	667.83	11.48	10.17				689.48
<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>	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
<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>18,487.35</b>						<b>18,487.35</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,337,417.05
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,255,904.54

<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.

## A9.7. 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 2011 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>1,150,321.76</b>	<b>28,881.55</b>	<b>33,712.55</b>	<b>19,906.20</b>	<b>14,783.02</b>	<b>17,535.35</b>	<b>1,265,140.42</b>
<b>1. Energy</b>	<b>1,157,958.90</b>	<b>2,521.89</b>	<b>8,482.92</b>				<b>1,168,963.72</b>
A. Fuel Combustion (Sectoral Approach)	1,157,909.53	961.40	8,482.77				1,167,353.70
1. Energy Industries	345,134.72	36.20	1,463.73				346,634.65
2. Manufacturing Industries and Construction	378,811.73	380.74	1,979.75				381,172.22
3. Transport	256,750.56	314.17	4,736.70				261,801.43
4. Other Sectors	177,212.53	230.29	302.59				177,745.40
5. Other	NO	NO	NO				NO
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>61,696.11</b>	<b>312.02</b>	<b>9,220.07</b>	<b>19,906.20</b>	<b>14,783.02</b>	<b>17,535.35</b>	<b>123,452.75</b>
A. Mineral Products	57,112.69	NA,NO	NA,NO				57,112.69
B. Chemical Industry	4,203.43	293.80	9,220.07	NA	NA	NA	13,717.30
C. Metal Production	379.99	18.22	NO	IE,NE	65.88	143.40	607.48
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				16,052.32	1,007.80	4,182.50	21,242.62
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				3,853.88	13,709.34	13,209.45	30,772.67
G. Other	NO	NO	NO	NO	NO	NO	NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>420.94</b>				<b>420.94</b>
<b>4. Agriculture</b>		<b>17,294.20</b>	<b>12,120.82</b>				<b>29,415.02</b>
A. Enteric Fermentation		7,551.46					7,551.46
B. Manure Management		2,859.09	5,089.03				7,948.13
C. Rice Cultivation		6,793.69					6,793.69
D. Agricultural Soils <sup>(3)</sup>		NA	7,001.56				7,001.56
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues			89.96	30.22			120.18
G. Other			NO	NO			NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-86,284.10</b>	<b>28.37</b>	<b>54.46</b>				<b>-86,201.28</b>
A. Forest Land	-91,333.96	28.37	2.88				-91,302.72
B. Cropland	658.84	NE,NO	51.58				710.41
C. Grassland	-464.36	NE,NO	NE,NO				-464.36
D. Wetlands	650.92	NE,NO	NE,NO				650.92
E. Settlements	2,532.97	NE,NO	NE,NO				2,532.97
F. Other Land	1,378.79	NO	NO				1,378.79
G. Other	292.70	NA,NE	NA,NE				292.70
<b>6. Waste</b>	<b>16,950.85</b>	<b>8,725.08</b>	<b>3,413.34</b>				<b>29,089.27</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,874.27					6,874.27
B. Waste-water Handling		1,823.78	1,266.03				3,089.80
C. Waste Incineration	16,310.38	15.24	2,136.87				18,462.50
D. Other	640.47	11.79	10.44				662.70
<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							1,351,341.70
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,265,140.42

(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.

## A9.8. 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 2011 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>1,144,914.91</b>	<b>27,829.57</b>	<b>34,380.04</b>	<b>19,905.11</b>	<b>16,164.62</b>	<b>14,998.12</b>	<b>1,258,192.37</b>
<b>1. Energy</b>	<b>1,154,948.65</b>	<b>2,227.88</b>	<b>8,714.35</b>				<b>1,165,890.88</b>
A. Fuel Combustion (Sectoral Approach)	1,154,900.68	950.64	8,714.20				1,164,565.52
1. Energy Industries	342,054.20	38.03	1,509.35				343,601.58
2. Manufacturing Industries and Construction	381,142.92	361.97	2,114.78				383,619.67
3. Transport	258,734.10	315.25	4,784.51				263,833.85
4. Other Sectors	172,969.46	235.38	305.56				173,510.41
5. Other	NO	NO	NO				NO
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>59,024.03</b>	<b>260.90</b>	<b>9,792.47</b>	<b>19,905.11</b>	<b>16,164.62</b>	<b>14,998.12</b>	<b>120,145.24</b>
A. Mineral Products	54,495.36	NA,NO	NA,NO				54,495.36
B. Chemical Industry	4,144.19	242.58	9,792.47	NA	NA	NA	14,179.23
C. Metal Production	384.48	18.33	NO	IE,NE	59.43	191.20	653.44
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				15,077.99	1,416.80	2,581.20	19,075.99
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				4,827.12	14,688.39	12,225.72	31,741.22
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>4. Agriculture</b>		<b>16,847.98</b>	<b>11,927.58</b>				<b>28,775.56</b>
A. Enteric Fermentation		7,505.45					7,505.45
B. Manure Management		2,816.67	5,031.14				7,847.81
C. Rice Cultivation		6,440.28					6,440.28
D. Agricultural Soils <sup>(3)</sup>		NA	6,867.78				6,867.78
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues			85.58				114.24
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-86,604.99</b>	<b>34.31</b>	<b>46.00</b>				<b>-86,524.68</b>
A. Forest Land	-91,176.64	34.31	3.48				-91,138.84
B. Cropland	541.92	NE,NO	42.52				584.44
C. Grassland	-446.63	NE,NO	NE,NO				-446.63
D. Wetlands	124.53	NE,NO	NE,NO				124.53
E. Settlements	2,178.68	NE,NO	NE,NO				2,178.68
F. Other Land	1,869.53	NO	NO				1,869.53
G. Other	303.61	NA,NE	NA,NE				303.61
<b>6. Waste</b>	<b>17,547.22</b>	<b>8,458.50</b>	<b>3,495.04</b>				<b>29,500.76</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,654.04					6,654.04
B. Waste-water Handling		1,777.43	1,275.81				3,053.24
C. Waste Incineration	16,891.99	14.71	2,208.32				19,115.02
D. Other	655.23	12.32	10.91				678.46
<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>	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
<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>19,107.10</b>						<b>19,107.10</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,344,717.05
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,258,192.37

<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.

## A9.9. 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 2011 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>1,109,518.45</b>	<b>27,005.29</b>	<b>32,844.55</b>	<b>19,415.96</b>	<b>13,411.82</b>	<b>13,624.11</b>	<b>1,215,820.18</b>
<b>1. Energy</b>	<b>1,125,032.90</b>	<b>2,058.76</b>	<b>8,582.18</b>				<b>1,135,673.84</b>
A. Fuel Combustion (Sectoral Approach)	1,124,990.17	920.79	8,582.05				1,134,493.00
1. Energy Industries	332,405.28	39.82	1,534.40				333,979.50
2. Manufacturing Industries and Construction	357,838.95	324.21	2,038.11				360,201.27
3. Transport	257,853.86	304.24	4,685.71				262,843.81
4. Other Sectors	176,892.07	252.52	323.83				177,468.42
5. Other	NO	NO	NO				NO
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>53,376.38</b>	<b>243.52</b>	<b>8,577.87</b>	<b>19,415.96</b>	<b>13,411.82</b>	<b>13,624.11</b>	<b>108,649.67</b>
A. Mineral Products	49,443.45	NA,NO	NA,NO				49,443.45
B. Chemical Industry	3,639.82	227.37	8,577.87	NA	NA	NA	12,445.07
C. Metal Production	293.11	16.15	NO	IE,NE	49.40	406.30	764.96
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,053.43	1,389.50	2,103.20	17,546.13
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,362.53	11,972.92	11,114.61	28,450.06
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>16,548.59</b>	<b>11,786.46</b>				<b>28,335.05</b>
A. Enteric Fermentation		7,466.79					7,466.79
B. Manure Management		2,770.83	4,986.39				7,757.21
C. Rice Cultivation		6,229.14					6,229.14
D. Agricultural Soils <sup>(3)</sup>		NA	6,772.69				6,772.69
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues		81.84	27.39				109.23
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-86,411.02</b>	<b>10.68</b>	<b>39.79</b>				<b>-86,360.55</b>
A. Forest Land	-91,019.31	10.68	1.08				-91,007.55
B. Cropland	549.38	NE,NO	38.71				588.09
C. Grassland	-421.04	NE,NO	NE,NO				-421.04
D. Wetlands	504.37	NE,NO	NE,NO				504.37
E. Settlements	2,168.35	NE,NO	NE,NO				2,168.35
F. Other Land	1,507.25	NO	NO				1,507.25
G. Other	299.97	NA,NE	NA,NE				299.97
<b>6. Waste</b>	<b>17,520.19</b>	<b>8,143.73</b>	<b>3,481.20</b>				<b>29,145.12</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,384.58					6,384.58
B. Waste-water Handling		1,732.18	1,258.77				2,990.95
C. Waste Incineration	16,911.07	14.53	2,211.41				19,137.01
D. Other	609.12	12.44	11.02				632.58
<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>	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							1,302,180.73
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,215,820.18

(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.

## A9.10. 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 2011 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>1,144,239.34</b>	<b>26,387.23</b>	<b>26,411.47</b>	<b>19,934.46</b>	<b>10,395.49</b>	<b>9,309.93</b>	<b>1,236,677.93</b>
<b>1. Energy</b>	<b>1,160,147.36</b>	<b>2,078.35</b>	<b>8,802.38</b>				<b>1,171,028.08</b>
A. Fuel Combustion (Sectoral Approach)	1,160,109.30	949.93	8,802.26				1,169,861.49
1. Energy Industries	349,785.30	42.67	1,636.33				351,464.31
2. Manufacturing Industries and Construction	365,074.78	328.47	2,128.16				367,531.41
3. Transport	260,017.18	302.99	4,679.03				264,999.20
4. Other Sectors	185,232.04	275.79	358.74				185,866.57
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	38.06	1,128.42	0.12				1,166.60
1. Solid Fuels	NE,NO	865.69	NE,NO				865.69
2. Oil and Natural Gas	38.06	262.73	0.12				300.91
<b>2. Industrial Processes</b>	<b>53,400.15</b>	<b>236.22</b>	<b>2,000.86</b>	<b>19,934.46</b>	<b>10,395.49</b>	<b>9,309.93</b>	<b>95,277.12</b>
A. Mineral Products	49,180.61	NA,NO	NA,NO				49,180.61
B. Chemical Industry	3,965.06	220.14	2,000.86	NA	NA	NA	6,186.06
C. Metal Production	254.49	16.08	NO	IE,NE	29.12	645.30	944.99
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				14,260.55	1,270.88	1,529.60	17,061.03
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				5,673.90	9,095.49	7,135.03	21,904.42
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>16,228.80</b>	<b>11,694.07</b>				<b>27,922.87</b>
A. Enteric Fermentation		7,407.75					7,407.75
B. Manure Management		2,717.58	4,933.09				7,650.67
C. Rice Cultivation		6,024.77					6,024.77
D. Agricultural Soils <sup>(3)</sup>		NA	6,734.81				6,734.81
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues		78.70	26.17				104.87
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-86,638.01</b>	<b>5.20</b>	<b>36.08</b>				<b>-86,596.72</b>
A. Forest Land	-90,861.99	5.20	0.53				-90,856.25
B. Cropland	510.96	NE,NO	35.55				546.51
C. Grassland	-408.04	NE,NO	NE,NO				-408.04
D. Wetlands	480.13	NE,NO	NE,NO				480.13
E. Settlements	1,776.49	NE,NO	NE,NO				1,776.49
F. Other Land	1,570.93	NO	NO				1,570.93
G. Other	293.52	NA,NE	NA,NE				293.52
<b>6. Waste</b>	<b>17,329.84</b>	<b>7,838.67</b>	<b>3,515.54</b>				<b>28,684.05</b>
A. Solid Waste Disposal on Land	NA,NE,NO	6,128.80					6,128.80
B. Waste-water Handling		1,683.35	1,221.57				2,904.92
C. Waste Incineration	16,677.27	14.04	2,282.92				18,974.22
D. Other	652.58	12.48	11.05				676.10
<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>	36,022.49	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
<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>18,260.06</b>						<b>18,260.06</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,323,274.65
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,236,677.93

<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 I.A.

## A9.11. 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 2011 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>1,164,226.90</b>	<b>25,796.91</b>	<b>28,978.85</b>	<b>18,800.43</b>	<b>9,519.49</b>	<b>7,188.49</b>	<b>1,254,511.08</b>
<b>1. Energy</b>	<b>1,180,079.82</b>	<b>2,006.00</b>	<b>8,821.40</b>				<b>1,190,907.22</b>
A. Fuel Combustion (Sectoral Approach)	1,180,043.79	962.85	8,821.29				1,189,827.94
1. Energy Industries	357,574.13	43.63	1,719.13				359,336.89
2. Manufacturing Industries and Construction	376,777.84	351.50	2,152.76				379,282.10
3. Transport	259,076.39	297.91	4,586.55				263,960.85
4. Other Sectors	186,615.43	269.81	362.85				187,248.08
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	36.03	1,043.15	0.11				1,079.29
1. Solid Fuels	NE,NO	769.13	NE,NO				769.13
2. Oil and Natural Gas	36.03	274.02	0.11				310.16
<b>2. Industrial Processes</b>	<b>53,983.02</b>	<b>195.78</b>	<b>4,690.09</b>	<b>18,800.43</b>	<b>9,519.49</b>	<b>7,188.49</b>	<b>94,377.30</b>
A. Mineral Products	49,841.59	NA,NO	NA,NO				49,841.59
B. Chemical Industry	3,893.01	178.95	4,690.09	NA	NA	NA	8,762.04
C. Metal Production	248.42	16.84	NO	IE,NE	17.78	1,027.70	1,310.74
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				12,659.84	1,359.00	860.40	14,879.24
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,140.59	8,142.70	5,300.39	19,583.69
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>16,044.72</b>	<b>11,613.08</b>				<b>27,657.80</b>
A. Enteric Fermentation		7,369.97					7,369.97
B. Manure Management		2,677.89	4,884.82				7,562.71
C. Rice Cultivation		5,919.76					5,919.76
D. Agricultural Soils <sup>(3)</sup>		NA	6,702.76				6,702.76
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues			77.10	25.50			102.60
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-87,329.80</b>	<b>7.75</b>	<b>32.70</b>				<b>-87,289.34</b>
A. Forest Land	-90,704.66	7.75	0.79				-90,696.12
B. Cropland	356.18	NE,NO	31.91				388.09
C. Grassland	-405.73	NE,NO	NE,NO				-405.73
D. Wetlands	453.04	NE,NO	NE,NO				453.04
E. Settlements	1,407.49	NE,NO	NE,NO				1,407.49
F. Other Land	1,231.02	NO	NO				1,231.02
G. Other	332.87	NA,NE	NA,NE				332.87
<b>6. Waste</b>	<b>17,493.86</b>	<b>7,542.66</b>	<b>3,480.59</b>				<b>28,517.10</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,880.99					5,880.99
B. Waste-water Handling		1,635.02	1,208.89				2,843.91
C. Waste Incineration	16,837.95	13.33	2,259.90				19,111.18
D. Other	655.91	13.31	11.79				681.02
<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							1,341,800.42
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,254,511.08

<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.

## A9.12. 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 2011 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>1,148,954.63</b>	<b>25,003.99</b>	<b>25,542.32</b>	<b>16,168.06</b>	<b>7,902.31</b>	<b>5,962.42</b>	<b>1,229,533.73</b>
<b>1. Energy</b>	<b>1,167,416.32</b>	<b>1,771.66</b>	<b>8,835.12</b>				<b>1,178,023.11</b>
A. Fuel Combustion (Sectoral Approach)	1,167,383.88	933.48	8,835.02				1,177,152.39
1. Energy Industries	349,730.24	43.68	1,945.07				351,718.99
2. Manufacturing Industries and Construction	366,480.21	325.89	2,111.49				368,917.59
3. Transport	261,120.73	292.19	4,409.50				265,822.42
4. Other Sectors	190,052.70	271.72	368.97				190,693.38
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	32.44	838.18	0.10				870.72
1. Solid Fuels	NE,NO	570.30	NE,NO				570.30
2. Oil and Natural Gas	32.44	267.88	0.10				300.42
<b>2. Industrial Processes</b>	<b>52,758.23</b>	<b>147.50</b>	<b>1,414.89</b>	<b>16,168.06</b>	<b>7,902.31</b>	<b>5,962.42</b>	<b>84,353.40</b>
A. Mineral Products	48,948.92	NA,NO	NA,NO				48,948.92
B. Chemical Industry	3,598.60	131.66	1,414.89	NA	NA	NA	5,145.14
C. Metal Production	210.71	15.84	NO	IE,NE	15.73	1,147.20	1,389.48
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				9,713.43	1,082.60	788.70	11,584.73
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				6,454.63	6,803.99	4,026.52	17,285.13
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>15,863.11</b>	<b>11,525.63</b>				<b>27,388.74</b>
A. Enteric Fermentation		7,325.24					7,325.24
B. Manure Management		2,652.15	4,839.23				7,491.39
C. Rice Cultivation		5,810.23					5,810.23
D. Agricultural Soils <sup>(3)</sup>		NA	6,661.64				6,661.64
E. Prescribed Burning of Savannas		NE	NE				NE
F. Field Burning of Agricultural Residues		75.49	24.75				100.24
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-87,465.86</b>	<b>12.34</b>	<b>29.83</b>				<b>-87,423.69</b>
A. Forest Land	-90,547.34	12.34	1.25				-90,533.74
B. Cropland	295.53	NE,NO	28.58				324.11
C. Grassland	-393.90	NE,NO	NE,NO				-393.90
D. Wetlands	415.71	NE,NO	NE,NO				415.71
E. Settlements	1,186.08	NE,NO	NE,NO				1,186.08
F. Other Land	1,330.74	NO	NO				1,330.74
G. Other	247.31	NA,NE	NA,NE				247.31
<b>6. Waste</b>	<b>16,245.95</b>	<b>7,209.37</b>	<b>3,393.25</b>				<b>26,848.57</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,600.63					5,600.63
B. Waste-water Handling		1,581.70	1,190.95				2,772.65
C. Waste Incineration	15,615.42	12.61	2,189.52				17,817.54
D. Other	630.53	14.44	12.79				657.75
<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>	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
<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>17,203.99</b>						<b>17,203.99</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,316,957.42
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,229,533.73

<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.

## A9.13. 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 2011 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>1,184,858.08</b>	<b>24,057.20</b>	<b>24,806.99</b>	<b>13,693.03</b>	<b>7,388.02</b>	<b>5,579.50</b>	<b>1,260,382.82</b>
<b>1. Energy</b>	<b>1,207,916.78</b>	<b>1,339.37</b>	<b>8,541.93</b>				<b>1,217,798.09</b>
A. Fuel Combustion (Sectoral Approach)	1,207,885.84	932.94	8,541.83				1,217,360.62
1. Energy Industries	381,372.56	35.64	1,879.01				383,287.21
2. Manufacturing Industries and Construction	372,966.83	330.83	2,128.68				375,426.34
3. Transport	255,478.88	281.62	4,148.14				259,908.63
4. Other Sectors	198,067.58	284.85	386.01				198,738.44
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	30.94	406.44	0.10				437.47
1. Solid Fuels	NE,NO	118.34	NE,NO				118.34
2. Oil and Natural Gas	30.94	288.10	0.10				319.13
<b>2. Industrial Processes</b>	<b>49,951.88</b>	<b>141.54</b>	<b>1,238.77</b>	<b>13,693.03</b>	<b>7,388.02</b>	<b>5,579.50</b>	<b>77,992.75</b>
A. Mineral Products	46,345.45	NA,NO	NA,NO				46,345.45
B. Chemical Industry	3,385.48	124.90	1,238.77	NA	NA	NA	4,749.16
C. Metal Production	220.95	16.64	NO	IE,NE	14.83	1,123.30	1,375.72
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				6,456.62	1,009.92	860.40	8,326.94
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				7,236.41	6,363.26	3,595.80	17,195.47
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>15,672.20</b>	<b>11,467.97</b>				<b>27,140.17</b>
A. Enteric Fermentation		7,276.11					7,276.11
B. Manure Management		2,630.65	4,810.72				7,441.37
C. Rice Cultivation		5,693.94					5,693.94
D. Agricultural Soils <sup>(3)</sup>		NA	6,633.89				6,633.89
E. Prescribed Burning of Savannas			NE	NE			NE
F. Field Burning of Agricultural Residues		71.50	23.36				94.86
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-88,646.87</b>	<b>20.53</b>	<b>26.64</b>				<b>-88,599.69</b>
A. Forest Land	-90,390.01	20.53	2.08				-90,367.39
B. Cropland	267.37	NE,NO	24.55				291.92
C. Grassland	-373.36	NE,NO	NE,NO				-373.36
D. Wetlands	103.03	NE,NO	NE,NO				103.03
E. Settlements	288.22	NE,NO	NE,NO				288.22
F. Other Land	1,188.00	NO	NO				1,188.00
G. Other	269.89	NA,NE	NA,NE				269.89
<b>6. Waste</b>	<b>15,636.28</b>	<b>6,883.56</b>	<b>3,197.63</b>				<b>25,717.46</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,319.75					5,319.75
B. Waste-water Handling		1,530.49	1,175.79				2,706.28
C. Waste Incineration	15,059.23	19.51	2,009.61				17,088.36
D. Other	577.05	13.80	12.23				603.07
<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>	36,728.93	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>17,917.42</b>						<b>17,917.42</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,348,982.51
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,260,382.82

<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.

## A9.14. 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 2011 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>1,180,877.48</b>	<b>23,519.56</b>	<b>24,479.80</b>	<b>13,761.68</b>	<b>7,181.45</b>	<b>5,253.91</b>	<b>1,255,073.89</b>
<b>1. Energy</b>	<b>1,213,922.12</b>	<b>1,294.17</b>	<b>8,266.71</b>				<b>1,223,483.00</b>
A. Fuel Combustion (Sectoral Approach)	1,213,887.66	904.81	8,266.61				1,223,059.08
1. Energy Industries	395,368.37	36.29	1,916.13				397,320.79
2. Manufacturing Industries and Construction	373,172.66	347.73	2,100.94				375,621.33
3. Transport	252,947.16	269.68	3,877.18				257,094.02
4. Other Sectors	192,399.48	251.11	372.36				193,022.94
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.46	389.36	0.11				423.92
1. Solid Fuels	NE,NO	93.86	NE,NO				93.86
2. Oil and Natural Gas	34.46	295.49	0.11				330.06
<b>2. Industrial Processes</b>	<b>49,127.25</b>	<b>133.88</b>	<b>1,259.55</b>	<b>13,761.68</b>	<b>7,181.45</b>	<b>5,253.91</b>	<b>76,717.72</b>
A. Mineral Products	45,757.07	NA,NO	NA,NO				45,757.07
B. Chemical Industry	3,128.60	117.37	1,259.55	NA	NA	NA	4,505.53
C. Metal Production	241.57	16.50	NO	IE,NE	15.21	1,125.53	1,398.81
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				5,459.50	965.60	812.60	7,237.70
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				8,302.18	6,200.65	3,315.79	17,818.61
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>15,517.65</b>	<b>11,398.71</b>				<b>26,916.35</b>
A. Enteric Fermentation		7,163.64					7,163.64
B. Manure Management		2,595.28	4,780.26				7,375.54
C. Rice Cultivation		5,690.55					5,690.55
D. Agricultural Soils <sup>(3)</sup>		NA	6,596.35				6,596.35
E. Prescribed Burning of Savannas			NE				NE
F. Field Burning of Agricultural Residues		68.18	22.10				90.27
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-97,743.71</b>	<b>3.90</b>	<b>21.90</b>				<b>-97,717.91</b>
A. Forest Land	-99,137.69	3.90	0.40				-99,133.40
B. Cropland	269.69	NE,NO	21.51				291.19
C. Grassland	-358.68	NE,NO	NE,NO				-358.68
D. Wetlands	68.80	NE,NO	NE,NO				68.80
E. Settlements	191.27	NE,NO	NE,NO				191.27
F. Other Land	976.53	NO	NO				976.53
G. Other	246.37	NA,NE	NA,NE				246.37
<b>6. Waste</b>	<b>15,571.81</b>	<b>6,569.98</b>	<b>3,212.10</b>				<b>25,353.89</b>
A. Solid Waste Disposal on Land	NA,NE,NO	5,049.60					5,049.60
B. Waste-water Handling		1,489.71	1,183.34				2,673.05
C. Waste Incineration	15,055.29	16.79	2,016.48				17,088.56
D. Other	516.53	13.87	12.28				542.68
<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>	<b>37,506.71</b>	<b>45.52</b>	<b>340.95</b>				<b>37,893.18</b>
Aviation	20,387.64	12.12	200.08				20,599.83
Marine	17,119.07	33.40	140.87				17,293.34
<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>18,296.50</b>						<b>18,296.50</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,352,791.80
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,255,073.89

<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.

## A9.15. 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 2011 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>1,180,746.39</b>	<b>23,079.39</b>	<b>24,520.73</b>	<b>10,552.49</b>	<b>7,478.30</b>	<b>5,095.89</b>	<b>1,251,473.18</b>
<b>1. Energy</b>	<b>1,214,020.86</b>	<b>1,272.54</b>	<b>8,006.39</b>				<b>1,223,299.79</b>
A. Fuel Combustion (Sectoral Approach)	1,213,985.86	899.57	8,006.28				1,222,891.72
1. Energy Industries	390,980.48	35.27	1,916.36				392,932.12
2. Manufacturing Industries and Construction	378,733.43	354.85	2,144.97				381,233.26
3. Transport	252,413.86	249.67	3,568.30				256,231.84
4. Other Sectors	191,858.09	259.78	376.64				192,494.51
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	34.99	372.96	0.11				408.07
1. Solid Fuels	NE,NO	66.51	NE,NO				66.51
2. Oil and Natural Gas	34.99	306.45	0.11				341.56
<b>2. Industrial Processes</b>	<b>48,959.48</b>	<b>143.54</b>	<b>1,657.60</b>	<b>10,552.49</b>	<b>7,478.30</b>	<b>5,095.89</b>	<b>73,887.29</b>
A. Mineral Products	45,529.84	NA,NO	NA,NO				45,529.84
B. Chemical Industry	3,171.80	126.53	1,657.60	NA	NA	NA	4,955.94
C. Metal Production	257.84	17.01	NO	IE,NE	14.80	1,111.02	1,400.67
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				1,469.74	866.84	764.80	3,101.38
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				9,082.75	6,596.66	3,220.06	18,899.47
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>15,392.92</b>	<b>11,331.62</b>				<b>26,724.54</b>
A. Enteric Fermentation		7,064.07					7,064.07
B. Manure Management		2,550.19	4,751.79				7,301.98
C. Rice Cultivation		5,712.00					5,712.00
D. Agricultural Soils <sup>(3)</sup>		NA	6,558.29				6,558.29
E. Prescribed Burning of Savannas			NO				NO
F. Field Burning of Agricultural Residues		66.65	21.54				88.19
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-97,258.29</b>	<b>12.12</b>	<b>19.06</b>				<b>-97,227.11</b>
A. Forest Land	-98,601.60	12.12	1.23				-98,588.26
B. Cropland	234.66	NE,NO	17.83				252.49
C. Grassland	-347.71	NE,NO	NE,NO				-347.71
D. Wetlands	62.41	NE,NO	NE,NO				62.41
E. Settlements	219.08	NE,NO	NE,NO				219.08
F. Other Land	938.61	NO	NO				938.61
G. Other	236.27	NA,NE	NA,NE				236.27
<b>6. Waste</b>	<b>15,024.34</b>	<b>6,258.28</b>	<b>3,208.51</b>				<b>24,491.14</b>
A. Solid Waste Disposal on Land	NA,NE,NO	4,776.05					4,776.05
B. Waste-water Handling		1,453.29	1,190.87				2,644.16
C. Waste Incineration	14,517.64	15.38	2,005.62				16,538.65
D. Other	506.70	13.56	12.01				532.28
<b>7. Other (as specified in Summary 1.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>18,188.60</b>						<b>18,188.60</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,348,700.30
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,251,473.18

(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.

## A9.16. 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 2011 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>1,191,957.43</b>	<b>22,685.43</b>	<b>24,036.45</b>	<b>10,566.32</b>	<b>7,002.07</b>	<b>4,807.94</b>	<b>1,261,055.64</b>
<b>1. Energy</b>	<b>1,217,733.23</b>	<b>1,282.78</b>	<b>7,944.96</b>				<b>1,226,960.97</b>
A. Fuel Combustion (Sectoral Approach)	1,217,695.63	887.04	7,944.84				1,226,527.52
1. Energy Industries	406,037.97	37.23	2,157.27				408,232.47
2. Manufacturing Industries and Construction	371,228.70	350.70	2,118.23				373,697.63
3. Transport	247,009.69	236.69	3,289.09				250,535.47
4. Other Sectors	193,419.28	262.42	380.25				194,061.95
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.60	395.74	0.12				433.46
1. Solid Fuels	NE,NO	73.56	NE,NO				73.56
2. Oil and Natural Gas	37.60	322.18	0.12				359.90
<b>2. Industrial Processes</b>	<b>50,031.45</b>	<b>133.87</b>	<b>1,299.94</b>	<b>10,566.32</b>	<b>7,002.07</b>	<b>4,807.94</b>	<b>73,841.58</b>
A. Mineral Products	46,902.66	NA,NO	NA,NO				46,902.66
B. Chemical Industry	2,886.85	116.98	1,299.94	NA	NA	NA	4,303.77
C. Metal Production	241.93	16.89	NO	IE,NE	14.80	1,157.31	1,430.93
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				816.01	837.49	975.12	2,628.62
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				9,750.31	6,149.78	2,675.51	18,575.60
G. Other	NO	NO	NO	NA,NO	NA,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>15,310.21</b>	<b>11,238.86</b>				<b>26,549.07</b>
A. Enteric Fermentation		7,002.30					7,002.30
B. Manure Management		2,503.33	4,749.47				7,252.80
C. Rice Cultivation		5,739.10					5,739.10
D. Agricultural Soils <sup>(3)</sup>		NA	6,468.22				6,468.22
E. Prescribed Burning of Savannas			NO				NO
F. Field Burning of Agricultural Residues			65.48	21.17			86.65
G. Other			NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-90,298.29</b>	<b>9.14</b>	<b>15.67</b>				<b>-90,273.48</b>
A. Forest Land	-92,020.09	9.14	0.93				-92,010.01
B. Cropland	277.08	NE,NO	14.74				291.82
C. Grassland	-335.58	NE,NO	NE,NO				-335.58
D. Wetlands	15.78	NE,NO	NE,NO				15.78
E. Settlements	578.46	NE,NO	NE,NO				578.46
F. Other Land	954.80	NO	NO				954.80
G. Other	231.25	NA,NE	NA,NE				231.25
<b>6. Waste</b>	<b>14,491.04</b>	<b>5,949.43</b>	<b>3,270.61</b>				<b>23,711.08</b>
A. Solid Waste Disposal on Land	NA,NE,NO	4,516.55					4,516.55
B. Waste-water Handling		1,402.84	1,160.49				2,563.33
C. Waste Incineration	13,984.22	14.27	2,096.16				16,094.65
D. Other	506.81	15.77	13.97				536.55
<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>	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
<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>21,743.33</b>						<b>21,743.33</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,351,329.12
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,261,055.64

<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.

## A9.17. 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 2011 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>1,178,515.94</b>	<b>22,276.82</b>	<b>24,007.03</b>	<b>11,742.22</b>	<b>7,315.75</b>	<b>4,910.86</b>	<b>1,248,768.61</b>
<b>1. Energy</b>	<b>1,199,312.92</b>	<b>1,324.31</b>	<b>7,728.40</b>				<b>1,208,365.63</b>
A. Fuel Combustion (Sectoral Approach)	1,199,277.03	916.06	7,728.28				1,207,921.37
1. Energy Industries	394,358.50	39.16	2,155.49				396,553.15
2. Manufacturing Industries and Construction	373,287.05	364.96	2,126.98				375,778.99
3. Transport	243,632.49	220.98	3,070.96				246,924.43
4. Other Sectors	187,998.99	290.95	374.85				188,664.80
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	35.89	408.25	0.11				444.26
1. Solid Fuels	NE,NO	68.12	NE,NO				68.12
2. Oil and Natural Gas	35.89	340.14	0.11				376.14
<b>2. Industrial Processes</b>	<b>50,102.06</b>	<b>133.09</b>	<b>1,624.72</b>	<b>11,742.22</b>	<b>7,315.75</b>	<b>4,910.86</b>	<b>75,828.70</b>
A. Mineral Products	47,005.76	NA,NO	NA,NO				47,005.76
B. Chemical Industry	2,918.74	115.93	1,624.72	NA	NA	NA	4,659.40
C. Metal Production	177.55	17.16	NO	IE,NE	14.82	1,091.08	1,300.62
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				938.25	879.14	1,366.36	3,183.75
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				10,803.97	6,421.79	2,453.41	19,679.17
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>242.34</b>				<b>242.34</b>
<b>4. Agriculture</b>		<b>15,211.28</b>	<b>11,247.55</b>				<b>26,458.82</b>
A. Enteric Fermentation		6,999.93					6,999.93
B. Manure Management		2,438.80	4,756.40				7,195.20
C. Rice Cultivation		5,707.49					5,707.49
D. Agricultural Soils <sup>(3)</sup>		NA	6,470.12				6,470.12
E. Prescribed Burning of Savannas			NO				NO
F. Field Burning of Agricultural Residues			65.06	21.03			86.09
G. Other			NO	NO			NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-84,554.21</b>	<b>2.44</b>	<b>13.12</b>				<b>-84,538.65</b>
A. Forest Land	-86,443.29	2.44	0.25				-86,440.60
B. Cropland	295.00	NE,NO	12.87				307.88
C. Grassland	-338.54	NE,NO	NE,NO				-338.54
D. Wetlands	23.80	NE,NO	NE,NO				23.80
E. Settlements	941.00	NE,NO	NE,NO				941.00
F. Other Land	737.48	NO	NO				737.48
G. Other	230.34	NA,NE	NA,NE				230.34
<b>6. Waste</b>	<b>13,655.17</b>	<b>5,605.70</b>	<b>3,150.90</b>				<b>22,411.77</b>
A. Solid Waste Disposal on Land	NA,NE,NO	4,203.56					4,203.56
B. Waste-water Handling		1,369.69	1,161.12				2,530.82
C. Waste Incineration	13,132.81	13.29	1,972.81				15,118.91
D. Other	522.36	19.16	16.97				558.49
<b>7. Other (as specified in Summary 1.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>	38,991.92	48.99	352.50				39,393.41
Aviation	19,964.61	11.87	195.93				20,172.40
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>21,976.71</b>						<b>21,976.71</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,333,307.26
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,248,768.61

<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.

## A9.18. 2007 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 2007  
Submission 2011 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>1,212,545.50</b>	<b>21,763.61</b>	<b>22,700.97</b>	<b>13,279.24</b>	<b>6,411.99</b>	<b>4,407.45</b>	<b>1,281,108.77</b>
<b>1. Energy</b>	<b>1,232,953.08</b>	<b>1,289.76</b>	<b>7,640.70</b>				<b>1,241,883.54</b>
A. Fuel Combustion (Sectoral Approach)	1,232,915.55	873.57	7,640.58				1,241,429.70
1. Energy Industries	446,855.25	44.88	2,220.01				449,120.14
2. Manufacturing Industries and Construction	370,254.70	370.10	2,173.46				372,798.26
3. Transport	237,830.98	206.59	2,890.59				240,928.16
4. Other Sectors	177,974.62	252.00	356.52				178,583.13
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.53	416.20	0.12				453.84
1. Solid Fuels	NE,NO	51.48	NE,NO				51.48
2. Oil and Natural Gas	37.53	364.72	0.12				402.37
<b>2. Industrial Processes</b>	<b>49,344.83</b>	<b>134.15</b>	<b>860.18</b>	<b>13,279.24</b>	<b>6,411.99</b>	<b>4,407.45</b>	<b>74,437.85</b>
A. Mineral Products	46,142.38	NA,NO	NA,NO				46,142.38
B. Chemical Industry	2,990.43	116.85	860.18	NA	NA	NA	3,967.46
C. Metal Production	212.02	17.30	NO	IE,NE	14.69	1,089.34	1,333.35
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				497.61	783.02	1,198.82	2,479.45
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				12,781.64	5,614.28	2,119.29	20,515.20
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>159.95</b>				<b>159.95</b>
<b>4. Agriculture</b>		<b>15,067.55</b>	<b>11,060.75</b>				<b>26,128.30</b>
A. Enteric Fermentation		6,974.46					6,974.46
B. Manure Management		2,376.24	4,773.45				7,149.69
C. Rice Cultivation		5,652.17					5,652.17
D. Agricultural Soils <sup>(3)</sup>		NA	6,266.55				6,266.55
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		64.68	20.75				85.43
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-83,761.26</b>	<b>2.04</b>	<b>11.70</b>				<b>-83,747.52</b>
A. Forest Land	-85,235.01	2.04	0.21				-85,232.76
B. Cropland	258.97	NE,NO	11.50				270.47
C. Grassland	-314.91	NE,NO	NE,NO				-314.91
D. Wetlands	28.67	NE,NO	NE,NO				28.67
E. Settlements	623.44	NE,NO	NE,NO				623.44
F. Other Land	552.63	NO	NO				552.63
G. Other	324.96	NA,NE	NA,NE				324.96
<b>6. Waste</b>	<b>14,008.85</b>	<b>5,270.10</b>	<b>2,967.69</b>				<b>22,246.65</b>
A. Solid Waste Disposal on Land	NA,NE,NO	3,909.72					3,909.72
B. Waste-water Handling		1,327.31	1,140.11				2,467.42
C. Waste Incineration	13,447.65	12.40	1,809.28				15,269.34
D. Other	561.20	20.66	18.30				600.16
<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>	<b>37,259.15</b>	<b>47.81</b>	<b>335.79</b>				<b>37,642.75</b>
Aviation	18,358.58	10.91	180.16				18,549.66
Marine	18,900.57	36.90	155.63				19,093.09
<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>22,957.60</b>						<b>22,957.60</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,364,856.28
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,281,108.77

<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.

## A9.19. 2008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 2008  
Submission 2011 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>1,134,902.40</b>	<b>21,234.85</b>	<b>22,454.78</b>	<b>15,298.30</b>	<b>4,616.01</b>	<b>3,795.22</b>	<b>1,202,301.56</b>
<b>1. Energy</b>	<b>1,152,627.89</b>	<b>1,265.77</b>	<b>7,279.49</b>				<b>1,161,173.15</b>
A. Fuel Combustion (Sectoral Approach)	1,152,590.04	857.48	7,279.37				1,160,726.90
1. Energy Industries	419,990.90	43.61	2,155.54				422,190.05
2. Manufacturing Industries and Construction	336,063.81	360.21	2,103.91				338,527.93
3. Transport	228,099.17	190.18	2,678.09				230,967.44
4. Other Sectors	168,436.17	263.47	341.84				169,041.47
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	37.85	408.29	0.12				446.26
1. Solid Fuels	NE,NO	45.83	NE,NO				45.83
2. Oil and Natural Gas	37.85	362.46	0.12				400.43
<b>2. Industrial Processes</b>	<b>45,738.96</b>	<b>121.48</b>	<b>1,262.15</b>	<b>15,298.30</b>	<b>4,616.01</b>	<b>3,795.22</b>	<b>70,832.12</b>
A. Mineral Products	43,009.10	NA,NO	NA,NO				43,009.10
B. Chemical Industry	2,574.10	106.46	1,262.15	NA	NA	NA	3,942.70
C. Metal Production	155.77	15.02	NO	IE,NE	14.67	652.47	837.94
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				701.41	523.80	1,288.21	2,513.42
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				14,596.89	4,077.55	1,854.54	20,528.97
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>129.10</b>				<b>129.10</b>
<b>4. Agriculture</b>		<b>14,897.53</b>	<b>10,859.88</b>				<b>25,757.41</b>
A. Enteric Fermentation		6,913.78					6,913.78
B. Manure Management		2,320.82	4,761.90				7,082.72
C. Rice Cultivation		5,598.59					5,598.59
D. Agricultural Soils <sup>(3)</sup>		NA	6,077.45				6,077.45
E. Prescribed Burning of Savannas			NO				NO
F. Field Burning of Agricultural Residues			64.35	20.53			84.87
G. Other			NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-78,350.51</b>	<b>21.65</b>	<b>10.57</b>				<b>-78,318.30</b>
A. Forest Land	-79,934.29	21.65	2.20				-79,910.45
B. Cropland	224.16	NE,NO	8.37				232.53
C. Grassland	-302.63	NE,NO	NE,NO				-302.63
D. Wetlands	16.29	NE,NO	NE,NO				16.29
E. Settlements	506.27	NE,NO	NE,NO				506.27
F. Other Land	834.04	NO	NO				834.04
G. Other	305.63	NA,NE	NA,NE				305.63
<b>6. Waste</b>	<b>14,886.05</b>	<b>4,928.42</b>	<b>2,913.59</b>				<b>22,728.06</b>
A. Solid Waste Disposal on Land	NA,NE,NO	3,585.94					3,585.94
B. Waste-water Handling		1,309.66	1,156.72				2,466.38
C. Waste Incineration	14,355.64	11.98	1,738.41				16,106.03
D. Other	530.41	20.84	18.46				569.71
<b>7. Other (as specified in Summary 1.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>	34,849.64	44.23	314.53				35,208.40
Aviation	17,517.99	10.41	171.92				17,700.32
Marine	17,331.65	33.81	142.62				17,508.09
<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>21,597.87</b>						<b>21,597.87</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,280,619.85
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,202,301.56

<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 1.A.

## A9.20. 2009 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 2009

Submission 2011 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>1,073,028.71</b>	<b>20,716.98</b>	<b>22,149.54</b>	<b>16,671.73</b>	<b>3,271.47</b>	<b>1,851.27</b>	<b>1,137,689.69</b>
<b>1. Energy</b>	<b>1,089,763.54</b>	<b>1,233.52</b>	<b>7,090.79</b>				<b>1,098,087.84</b>
A. Fuel Combustion (Sectoral Approach)	1,089,728.39	839.32	7,090.68				1,097,658.39
1. Energy Industries	386,428.90	41.93	2,070.18				388,541.02
2. Manufacturing Industries and Construction	318,571.47	363.72	2,023.10				320,958.29
3. Transport	222,914.64	185.51	2,667.41				225,767.57
4. Other Sectors	161,813.37	248.16	329.98				162,391.51
5. Other	NO	NO	NO				NO
B. Fugitive Emissions from Fuels	35.15	394.20	0.11				429.46
1. Solid Fuels	NE,NO	46.25	NE,NO				46.25
2. Oil and Natural Gas	35.15	347.95	0.11				383.21
<b>2. Industrial Processes</b>	<b>40,308.64</b>	<b>109.58</b>	<b>1,559.50</b>	<b>16,671.73</b>	<b>3,271.47</b>	<b>1,851.27</b>	<b>63,772.19</b>
A. Mineral Products	37,708.45	NA,NO	NA,NO				37,708.45
B. Chemical Industry	2,488.20	96.64	1,559.50	NA	NA	NA	4,144.34
C. Metal Production	111.99	12.95	NO	IE,NE	11.02	239.00	374.96
D. Other Production	IE						IE
E. Production of Halocarbons and SF <sub>6</sub>				222.14	399.48	260.51	882.13
F. Consumption of Halocarbons and SF <sub>6</sub> <sup>(2)</sup>				16,449.59	2,860.96	1,351.76	20,662.32
G. Other	NO	NO	NO	NA,NO	NA,NO	NO	NA,NO
<b>3. Solvent and Other Product Use</b>	<b>NA,NE</b>		<b>120.50</b>				<b>120.50</b>
<b>4. Agriculture</b>		<b>14,778.60</b>	<b>10,623.51</b>				<b>25,402.11</b>
A. Enteric Fermentation		6,849.21					6,849.21
B. Manure Management		2,299.73	4,761.36				7,061.09
C. Rice Cultivation		5,566.50					5,566.50
D. Agricultural Soils <sup>(3)</sup>		NA	5,842.03				5,842.03
E. Prescribed Burning of Savannas		NO	NO				NO
F. Field Burning of Agricultural Residues		63.15	20.13				83.28
G. Other		NO	NO				NO
<b>5. Land Use, Land-Use Change and Forestry<sup>(1)</sup></b>	<b>-71,540.69</b>	<b>8.73</b>	<b>8.49</b>				<b>-71,523.47</b>
A. Forest Land	-73,677.93	8.73	0.89				-73,668.32
B. Cropland	257.51	NE,NO	7.60				265.11
C. Grassland	-276.24	NE,NO	NE,NO				-276.24
D. Wetlands	22.72	NE,NO	NE,NO				22.72
E. Settlements	815.99	NE,NO	NE,NO				815.99
F. Other Land	1,049.01	NO	NO				1,049.01
G. Other	268.25	NA,NE	NA,NE				268.25
<b>6. Waste</b>	<b>14,497.22</b>	<b>4,586.56</b>	<b>2,746.75</b>				<b>21,830.53</b>
A. Solid Waste Disposal on Land	NA,NE,NO	3,303.02					3,303.02
B. Waste-water Handling		1,247.42	1,087.40				2,334.82
C. Waste Incineration	13,983.52	11.38	1,637.44				15,632.34
D. Other	513.71	24.74	21.91				560.35
<b>7. Other (as specified in Summary 1.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>	<b>30,794.11</b>	<b>39.18</b>	<b>277.79</b>				<b>31,111.08</b>
Aviation	15,403.53	9.15	151.16				15,563.85
Marine	15,390.58	30.02	126.62				15,547.23
<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>19,754.98</b>						<b>19,754.98</b>
Total CO <sub>2</sub> Equivalent Emissions without Land Use, Land-Use Change and Forestry							1,209,213.17
Total CO <sub>2</sub> Equivalent Emissions with Land Use, Land-Use Change and Forestry							1,137,689.69

(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.