

**Table 1 Sectoral Report for Energy (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>Total Energy</b>	<b>51,804</b>	<b>88.57</b>	<b>1.91</b>
<b>A. Fuel Combustion Activities (Sectoral Approach)</b>	<b>50,531</b>	<b>14.42</b>	<b>1.88</b>
<b>1. Energy Industries</b>	<b>19,336</b>	<b>0.74</b>	<b>0.50</b>
a. Public Electricity and Heat Production	14,846	0.24	0.35
b. Petroleum Refining	2,893	0.09	0.05
c. Manufacture of Solid Fuels and Other Energy Industries	1,597	0.41	0.09
<b>2. Manufacturing Industries and Construction</b>	<b>9,570</b>	<b>1.77</b>	<b>0.45</b>
a. Iron and Steel	3,124	1.33	0.06
b. Non-Ferrous Metals	IE	IE	IE
c. Chemicals	IE	IE	IE
d. Pulp, Paper and Print	IE	IE	IE
e. Food Processing, Beverages and Tobacco	IE	IE	IE
f. Other ( <i>please specify</i> )	6,446	0.44	0.39
<b>3. Transport</b>	<b>10,595</b>	<b>2.61</b>	<b>0.44</b>
a. Civil Aviation	319	0.04	0.01
b. Road Transportation	9,092	2.54	0.31
c. Railways	194	0.02	0.07
d. Navigation	951	0.01	0.02
e. Other Transportation ( <i>please specify</i> )	38	0.00	0.02

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>4. Other Sectors</b>	<b>10,569</b>	<b>9.29</b>	<b>0.49</b>
a. Commercial/Institutional	2,254	0.25	0.02
b. Residential	7,416	8.94	0.14
c. Agriculture/Forestry/Fisheries	898	0.10	0.33
<b>5. Other (Military Aircraft and Naval Vessels)</b>	<b>462</b>	<b>0.01</b>	<b>0.01</b>
<b>B. Fugitive Emissions from Fuels</b>	<b>1,272.79</b>	<b>74.14</b>	<b>0.03</b>
<b>1. Solid Fuels</b>	<b>15.58</b>	<b>30.17</b>	<b>0.00</b>
a. Coal Mining	0.00	30.08	0.00
b. Solid Fuel Transformation	15.58	0.09	0.00
c. Other ( <i>please specify</i> )	NO	NO	NO
<b>2. Oil and Natural Gas</b>	<b>1,257.21</b>	<b>43.97</b>	<b>0.03</b>
a. Oil	340.27	4.96	0.00
b. Natural Gas	0.00	27.14	NO
c. Venting and Flaring	916.94	11.87	0.03
Flaring	916.75	4.16	0.03
Venting	0.19	7.71	NO
<b>Memo Items: <sup>(2)</sup></b>			
<b>International Bunkers</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Aviation	<b>NA</b>	<b>NA</b>	<b>NA</b>
Marine	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>NE</b>		

**Table 2(I) Sectoral Report for Industrial Processes (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			Gg CO <sub>2</sub> Equivalent		Gg
<b>Total Industrial Processes</b>	<b>1,167</b>	<b>0.52</b>	<b>1.27</b>	<b>1.05</b>	<b>113.45</b>	<b>0.00</b>
<b>A. Mineral Products</b>	<b>710</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Cement Production	511	NO	NO			
2. Lime Production	0.00	NO	NO			
3. Limestone and Dolomite Use	175.04	NO	NO			
4. Soda Ash Production and Use	24.22	NO	NO			
5. Asphalt Roofing	NE	NO	NO			
6. Road Paving with Asphalt	NE	NO	NO			
7. Other (fletton bricks)	0	0.00	NO			
<b>B. Chemical Industry</b>	<b>138.27</b>	<b>0.42</b>	<b>1.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Ammonia Production	0.00	NE	NO			
2. Nitric Acid Production	NO	NO	1.27			
3. Adipic Acid Production	NO	NO	0.00			
4. Carbide Production	NO	NO	NO			
5. Other ( <i>please specify</i> )	138.27	0.42	NO			
<b>C. Metal Production</b>	<b>318.46</b>	<b>0.10</b>	<b>0.00</b>	<b>0.00</b>	<b>94.25</b>	<b>0.00</b>
1. Iron and Steel Production	243.63	0.10	0.00	0.00	0.00	0.00
2. Ferroalloys Production	IE	NE	NO	0.00	0.00	0.00
3. Aluminium Production	74.83	NO	NO	0.00	94.25	0.00
4. SF <sub>6</sub> Used in Aluminium and Magnesium Foundries	NO	NO	NO	0.00	0.00	0.00
5. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00

**Table 2(I) Sectoral Report for Industrial Processes (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			Gg CO <sub>2</sub> Equivalent		Gg
<b>D. Other Production</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Pulp and Paper	NO	NO	NO	0.00	0.00	0.00
2. Food and Drink <sup>(2)</sup>	IE	NO	NO	0.00	0.00	0.00
<b>E. Production of Halocarbons and SF<sub>6</sub></b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>
1. By-product Emissions	NO	NO	NO	0	0.00	0.00
2. Fugitive Emissions	NO	NO	NO	0.00	0.00	0.00
3. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00
<b>F. Consumption of Halocarbons and SF<sub>6</sub></b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.05</b>	<b>19.20</b>	<b>0.00</b>
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	0.00	0.00	0.00
2. Foam Blowing	NO	NO	NO	0.00	0.00	0.00
3. Fire Extinguishers	NO	NO	NO	0.00	0.00	0.00
4. Aerosols/ Metered Dose Inhalers	NO	NO	NO	1.05	0.00	0.00
5. Solvents	NO	NO	NO	0.00	0.00	0.00
6. Semiconductor Manufacture	NO	NO	NO	0.00	0.00	0.00
7. Electrical Equipment	NO	NO	NO	0.00	0.00	0.00
8. Other ( <i>please specify</i> )	NO	NO	NO	0.00	19.20	0.00
<b>G. Other (<i>please specify</i>)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Table 4 Sectoral Report for Agriculture (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)	
<b>Total Agriculture</b>	<b>167.00</b>	<b>16.82</b>
<b>A. Enteric Fermentation</b>	<b>148.01</b>	<b>0.00</b>
1. Cattle	99.71	NO
2. Buffalo	NO	NO
3. Sheep	47.18	NO
4. Goats	0.11	NO
5. Camels and Llamas	NO	NO
6. Horses	0.26	NO
7. Mules and Asses	NO	NO
8. Swine	0.68	NO
9. Poultry	0	NO
10. Other (Deer)	0.08	NO
<b>B. Manure Management</b>	<b>18.11</b>	<b>0.94</b>
1. Cattle	12.62	NO
2. Buffalo	NO	0.00
3. Sheep	1.12	0.00
4. Goats	0.00	0.00
5. Camels and Llamas	NO	NO
6. Horses	0.02	0.00
7. Mules and Asses	NO	NO
8. Swine	3.19	0.00
9. Poultry	1.16	0.00
10. Other Livestock - Deer	0.00	0.00

**Table 4 Sectoral Report for Agriculture (Scotland, 1990)**

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<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>
	<b>(Gg)</b>	
<b>B. Manure Management (continued)</b>		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.0185
13. Solid Storage and Dry Lot	NO	0.7009
14. Other AWMS	NO	0.22
<b>C. Rice Cultivation</b>	<b>NO</b>	<b>NO</b>
<b>D. Agricultural Soils <sup>(1)</sup></b>	<b>NE</b>	<b>15.86</b>
<b>E. Prescribed Burning of Savannas</b>	<b>NO</b>	<b>NO</b>
<b>F. Field Burning of Agricultural Residues</b>	<b>0.87</b>	<b>0.02</b>
1 . Cereals	0.86	0.02
2. Pulse	NO	NO
3 . Tuber and Root	NO	NO
4 . Sugar Cane	NO	NO
5 . Other (Linseed)	0.01	0.00
<b>G. Other</b>	<b>0.00</b>	<b>0.00</b>

**Table 5 Sectoral Report for Land Use Change and Forestry (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>5. Land-Use Change and Forestry</b>	<b>-2,528</b>	<b>0.19</b>	<b>0.02</b>
A. Forest Land	-7,535	0	0
B. Cropland	6,102	0	0
C. Grassland	-2,104	0	0
D. Wetlands			
E. Settlements	1,774	0	0
F. Other land			
G. Other activities	-765	0	0

**Table 6 Sectoral Report for Waste (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>Total Waste</b>	<b>43.45</b>	<b>268</b>	<b>0.30</b>
<b>A. Solid Waste Disposal on Land</b>	<b>0.00</b>	<b>265</b>	<b>0.00</b>
1. Managed Waste Disposal on Land	0.00	265	0.00
2. Unmanaged Waste Disposal Sites			
3. Other ( <i>please specify</i> )			
<b>B. Wastewater Handling</b>	<b>0.00</b>	<b>2.96</b>	<b>0.29</b>
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	2.96	0.29
3. Other ( <i>please specify</i> )			
<b>C. Waste Incineration</b>	<b>43.45</b>	<b>0.19</b>	<b>0.01</b>
<b>D. Other (<i>please specify</i>)</b>			



**Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 1990)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		Gg
<b>Total National Emissions and Removals</b>	<b>50,486.50</b>	<b>524.36</b>	<b>20.33</b>	<b>1.05</b>	<b>113.45</b>	<b>0.00</b>
<b>1. Energy</b>	<b>51,804.20</b>	<b>88.57</b>	<b>1.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	50,531.41	14.42	1.88	0.00	0.00	0.00
1. Energy Industries	19,336.29	0.74	0.50	0.00	0.00	0.00
2. Manufacturing Industries and Construction	9,569.93	1.77	0.45	0.00	0.00	0.00
3. Transport	10,594.83	2.61	0.44	0.00	0.00	0.00
4. Other Sectors	10,568.61	9.29	0.49	0.00	0.00	0.00
5. Other	461.76	0.01	0.01	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	1,272.79	74.14	0.03	0.00	0.00	0.00
1. Solid Fuels	15.58	30.17	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	1,257.21	43.97	0.03	0.00	0.00	0.00
<b>2. Industrial Processes</b>	<b>1,166.66</b>	<b>0.52</b>	<b>1.27</b>	<b>1.05</b>	<b>113.45</b>	<b>0.00</b>
A. Mineral Products	709.93	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry	138.27	0.42	1.27	0.00	0.00	0.00
C. Metal Production	318.46	0.10	0.00	0.00	94.25	0.00
D. Other Production <sup>(3)</sup>	0.00	0.00	0.00	0.00	0.00	0.00
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	1.05	19.20	0.00
G. Other	0.00	0.00	0.00	0.00	0.00	0.00

### Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 1990)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		(Gg)
<b>3. Solvent and Other Product Use</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>4. Agriculture</b>	<b>0.00</b>	<b>167.00</b>	<b>16.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		148.01	0.00	0.00	0.00	0.00
B. Manure Management		18.11	0.94	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	15.86	0.00	0.00	0.00
E. Prescribed Burning of Savannas		NO	NO	0.00	0.00	0.00
F. Field Burning of Agricultural Residues		0.87	0.02	0.00	0.00	0.00
G. Other		0.00	0.00	0.00	0.00	0.00
<b>5. Land-Use Change and Forestry</b>	<b>-2,528</b>	<b>0.19</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-7,535	0.05	0.02			
B. Cropland	6,102	0.00	0.00			
C. Grassland	-2,104	0.03	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	1,774	0.10	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-765.08	0.00	0.00			
<b>6. Waste</b>	<b>43.5</b>	<b>268.1</b>	<b>0.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	264.93	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	2.96	0.29	0.00	0.00	0.00
C. Waste Incineration	43.45	0.19	0.01	0.00	0.00	0.00
D. Other	0.00	0.00	0.00	0.00	0.00	0.00

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		Gg
<b>Total National Emissions and Removals</b>	<b>49502.32</b>	<b>484.88</b>	<b>18.41</b>	<b>139.19</b>	<b>87.62</b>	<b>0.00</b>
<b>1. Energy</b>	<b>52443.91</b>	<b>80.52</b>	<b>2.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	50320.50	9.05	2.05			
1. Energy Industries	22635.91	1.17	0.52			
2. Manufacturing Industries and Construction	6276.80	0.51	0.35			
3. Transport	10463.64	1.97	0.74			
4. Other Sectors	10600.12	5.40	0.44			
5. Other	344.05	0.01	0.01			
B. Fugitive Emissions from Fuels	2123.41	71.47	0.02			
1. Solid Fuels	0.00	29.38	0.00			
2. Oil and Natural Gas	2123.41	42.09	0.02			
<b>2. Industrial Processes</b>	<b>652.57</b>	<b>0.58</b>	<b>0.00</b>	<b>139.19</b>	<b>87.62</b>	<b>0.00</b>
A. Mineral Products	433.66	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry	151.03	0.58	0.00	0.00	0.00	0.00
C. Metal Production	67.88	0.00	0.00	0.00	35.88	0.00
D. Other Production <sup>(3)</sup>						
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	139.19	51.74	0.00
G. Other						

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		(Gg)
<b>3. Solvent and Other Product Use</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>4. Agriculture</b>	<b>0.00</b>	<b>164.85</b>	<b>16.02</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		146.25	0.00			
B. Manure Management		18.60	0.89			
C. Rice Cultivation		NO	NO			
D. Agricultural Soils		0.00	15.13			
E. Prescribed Burning of Savannas		NO	NO			
F. Field Burning of Agricultural Residues		0.00	0.00			
G. Other		0.00	0.00			
<b>5. Land-Use Change and Forestry</b>	<b>-3624.21</b>	<b>0.49</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-8884.67	0.39	0.01			
B. Cropland	6312.55	0.00	0.00			
C. Grassland	-2179.79	0.03	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	1726.04	0.07	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-598.33	0.00	0.00			
<b>6. Waste</b>	<b>30.05</b>	<b>238.44</b>	<b>0.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	235.30	0.00			
B. Wastewater Handling	0.00	3.02	0.30			
C. Waste Incineration	30.05	0.11	0.01			
D. Other						
<b>7. Other (please specify)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>			

**Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 2006)**

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		Gg
<b>Total National Emissions and Removals</b>	<b>46844.53</b>	<b>300.46</b>	<b>14.94</b>	<b>789.74</b>	<b>62.46</b>	<b>0.00</b>
<b>1. Energy</b>	<b>50621.08</b>	<b>28.75</b>	<b>1.70</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	49858.91	4.50	1.69			
1. Energy Industries	22420.17	0.62	0.55			
2. Manufacturing Industries and Construction	5905.35	0.50	0.31			
3. Transport	11805.59	0.64	0.49			
4. Other Sectors	9506.30	2.73	0.33			
5. Other	221.50	0.01	0.01			
B. Fugitive Emissions from Fuels	762.17	24.25	0.00			
1. Solid Fuels	0.00	5.47	0.00			
2. Oil and Natural Gas	762.17	18.78	0.00			
<b>2. Industrial Processes</b>	<b>667.79</b>	<b>0.93</b>	<b>0.00</b>	<b>789.74</b>	<b>62.46</b>	<b>0.00</b>
A. Mineral Products	437.40	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry	156.69	0.93	0.00	0.00	0.00	0.00
C. Metal Production	73.69	0.00	0.00	0.00	4.52	0.00
D. Other Production <sup>(3)</sup>						
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	789.74	57.94	0.00
G. Other						

### Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 2006)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		(Gg)
<b>3. Solvent and Other Product Use</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>4. Agriculture</b>	<b>0.00</b>	<b>151.42</b>	<b>12.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		134.09	0.00			
B. Manure Management		17.34	0.81			
C. Rice Cultivation		NO	NO			
D. Agricultural Soils		0.00	12.08			
E. Prescribed Burning of Savannas		NO	NO			
F. Field Burning of Agricultural Residues		0.00	0.00			
G. Other		0.00	0.00			
<b>5. Land-Use Change and Forestry</b>	<b>-4462.70</b>	<b>0.47</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-9742.44	0.29	0.00			
B. Cropland	6599.95	0.00	0.00			
C. Grassland	-2580.07	0.12	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	1681.03	0.06	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-421.17	0.00	0.00			
<b>6. Waste</b>	<b>18.36</b>	<b>118.89</b>	<b>0.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	115.66	0.00			
B. Wastewater Handling	0.00	3.22	0.34			
C. Waste Incineration	18.36	0.01	0.01			
D. Other						
<b>7. Other (please specify)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>			

**Table 1 Sectoral Report for Energy (Scotland, 2007)**

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>Total Energy</b>	<b>46,866</b>	<b>25.69</b>	<b>1.61</b>
<b>A. Fuel Combustion Activities (Sectoral Approach)</b>	<b>46,115</b>	<b>4.59</b>	<b>1.60</b>
<b>1. Energy Industries</b>	<b>19,233</b>	<b>0.63</b>	<b>0.48</b>
a. Public Electricity and Heat Production	15,509	0.26	0.34
b. Petroleum Refining	1,890	0.05	0.04
c. Manufacture of Solid Fuels and Other Energy Industries	1,833	0.32	0.10
<b>2. Manufacturing Industries and Construction</b>	<b>5,497</b>	<b>0.47</b>	<b>0.31</b>
a. Iron and Steel	66	0.01	0.00
b. Non-Ferrous Metals	IE	IE	IE
c. Chemicals	IE	IE	IE
d. Pulp, Paper and Print	IE	IE	IE
e. Food Processing, Beverages and Tobacco	IE	IE	IE
f. Other ( <i>please specify</i> )	5,431	0.47	0.31
<b>3. Transport</b>	<b>11,905</b>	<b>0.59</b>	<b>0.48</b>
a. Civil Aviation	614	0.02	0.02
b. Road Transportation	10,135	0.54	0.33
c. Railways	232	0.02	0.09
d. Navigation	865	0.01	0.02
e. Other Transportation ( <i>please specify</i> )	59	0.00	0.02

**Table 1 Sectoral Report for Energy (Scotland, 2007)**

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>4. Other Sectors</b>	<b>9,197</b>	<b>2.88</b>	<b>0.32</b>
a. Commercial/Institutional	1,725	0.18	0.01
b. Residential	6,747	2.61	0.05
c. Agriculture/Forestry/Fisheries	724	0.10	0.26
<b>5. Other (Military Aircraft and Naval Vessels)</b>	<b>282</b>	<b>0.01</b>	<b>0.01</b>
<b>B. Fugitive Emissions from Fuels</b>	<b>751.53</b>	<b>21.10</b>	<b>0.01</b>
<b>1. Solid Fuels</b>	<b>0.00</b>	<b>4.94</b>	<b>0.00</b>
a. Coal Mining	0.00	4.94	0.00
b. Solid Fuel Transformation	0.00	0.00	0.00
c. Other ( <i>please specify</i> )	NO	NO	NO
<b>2. Oil and Natural Gas</b>	<b>751.53</b>	<b>16.17</b>	<b>0.01</b>
a. Oil	382.38	1.10	0.00
b. Natural Gas	0.00	13.56	NO
c. Venting and Flaring	369.15	1.51	0.01
Flaring	369.03	0.76	0.01
Venting	0.12	0.75	NO
<b>Memo Items: <sup>(2)</sup></b>			
<b>International Bunkers</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
Aviation	<b>NA</b>	<b>NA</b>	<b>NA</b>
Marine	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>CO<sub>2</sub> Emissions from Biomass</b>	<b>NE</b>		



**Table 2(I) Sectoral Report for Industrial Processes (Scotland, 2007)**

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			Gg CO <sub>2</sub> Equivalent		Gg
<b>Total Industrial Processes</b>	<b>632.76</b>	<b>0.97</b>	<b>0.00</b>	<b>778.78</b>	<b>56.98</b>	<b>0.00</b>
<b>A. Mineral Products</b>	<b>418.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Cement Production	379.18	NO	NO	0.00	0.00	0.00
2. Lime Production	0.00	NO	NO	0.00	0.00	0.00
3. Limestone and Dolomite Use	13.99	NO	NO	0.00	0.00	0.00
4. Soda Ash Production and Use	25.74	NO	NO	0.00	0.00	0.00
5. Asphalt Roofing	NE	NO	NO	0.00	0.00	0.00
6. Road Paving with Asphalt	NE	NO	NO	0.00	0.00	0.00
7. Other (fletton bricks)	0.00	0.00	NO	0.00	0.00	0.00
<b>B. Chemical Industry</b>	<b>155.86</b>	<b>0.97</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Ammonia Production	0.00	NE	NO	0.00	0.00	0.00
2. Nitric Acid Production	NO	NO	0.00	0.00	0.00	0.00
3. Adipic Acid Production	NO	NO	0.00	0.00	0.00	0.00
4. Carbide Production	NO	NO	NO	0.00	0.00	0.00
5. Other ( <i>please specify</i> )	155.86	0.97	NO	0.00	0.00	0.00
<b>C. Metal Production</b>	<b>57.98</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.42</b>	<b>0.00</b>
1. Iron and Steel Production	0.20	0.00	0.00	0.00	0.00	0.00
2. Ferroalloys Production	IE	NE	NO	0.00	0.00	0.00
3. Aluminium Production	57.78	NO	NO	0.00	1.42	0.00
4. SF <sub>6</sub> Used in Aluminium and Magnesium Foundries	NO	NO	NO	0.00	0.00	0.00
5. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00

**Table 2(I) Sectoral Report for Industrial Processes (Scotland, 2007)**

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			Gg CO <sub>2</sub> Equivalent		Gg
<b>D. Other Production</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Pulp and Paper	NO	NO	NO	0.00	0.00	0.00
2. Food and Drink <sup>(2)</sup>	IE	NO	NO	0.00	0.00	0.00
<b>E. Production of Halocarbons and SF<sub>6</sub></b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. By-product Emissions	NO	NO	NO	0.00	0.00	0.00
2. Fugitive Emissions	NO	NO	NO	0.00	0.00	0.00
3. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00
<b>F. Consumption of Halocarbons and SF<sub>6</sub></b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>778.78</b>	<b>55.55</b>	<b>0.00</b>
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	457.31	0.00	0.00
2. Foam Blowing	NO	NO	NO	34.63	0.00	0.00
3. Fire Extinguishers	NO	NO	NO	16.67	0.00	0.00
4. Aerosols/ Metered Dose Inhalers	NO	NO	NO	254.30	0.00	0.00
5. Solvents	NO	NO	NO	5.94	0.00	0.00
6. Semiconductor Manufacture	NO	NO	NO	0.00	0.00	0.00
7. Electrical Equipment	NO	NO	NO	0.00	0.00	0.00
8. Other ( <i>please specify</i> )	NO	NO	NO	9.93	55.55	0.00
<b>G. Other (<i>please specify</i>)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Table 4 Sectoral Report for Agriculture (Scotland, 2007)**

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)	
<b>Total Agriculture</b>	<b>147.37</b>	<b>12.23</b>
<b>A. Enteric Fermentation</b>	<b>130.28</b>	<b>0.00</b>
1. Cattle	93.24	NO
2. Buffalo	NO	NO
3. Sheep	35.69	NO
4. Goats	0.02	NO
5. Camels and Llamas	NO	NO
6. Horses	0.59	NO
7. Mules and Asses	NO	NO
8. Swine	0.69	NO
9. Poultry	0	NO
10. Other (Deer)	0.05	NO
<b>B. Manure Management</b>	<b>17.10</b>	<b>0.79</b>
1. Cattle	11.88	0.00
2. Buffalo	NO	NO
3. Sheep	0.85	0.00
4. Goats	0.00	0.00
5. Camels and Llamas	NO	NO
6. Horses	0.05	0.00
7. Mules and Asses	NO	NO
8. Swine	3.22	0.00
9. Poultry	1.10	0.00
10. Other Livestock - Deer	0.00	0.00

**Table 4 Sectoral Report for Agriculture (Scotland, 2007)**

(Page 2 of 2)

<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>
	<b>(Gg)</b>	
<b>B. Manure Management (continued)</b>		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.02
13. Solid Storage and Dry Lot	NO	0.65
14. Other AWMS	NO	0.13
<b>C. Rice Cultivation</b>	<b>NO</b>	<b>NO</b>
<b>D. Agricultural Soils <sup>(1)</sup></b>	<b>NE</b>	<b>11.44</b>
<b>E. Prescribed Burning of Savannas</b>	<b>NO</b>	<b>NO</b>
<b>F. Field Burning of Agricultural Residues</b>	<b>0.00</b>	<b>0.00</b>
1 . Cereals	0.00	0.00
2. Pulse	NO	NO
3 . Tuber and Root	NO	NO
4 . Sugar Cane	NO	NO
5 . Other (Linseed)	0.00	0.00
<b>G. Other</b>	<b>0.00</b>	<b>0.00</b>

**Table 5 Sectoral Report for Land Use Change and Forestry (Scotland, 2007)**

(Page 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>5. Land-Use Change and Forestry</b>	<b>-4,452</b>	<b>0.48</b>	<b>0.01</b>
A. Forest Land	-9,315	0.31	0.00
B. Cropland	6,609	0.00	0.00
C. Grassland	-2,651	0.10	0.00
D. Wetlands			
E. Settlements	1,684	0.07	0.00
F. Other land			
G. Other activities	-778	0.00	0.00

**Table 6 Sectoral Report for Waste (Scotland, 2007)**

(Page 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O
	(Gg)		
<b>Total Waste</b>	<b>18.34</b>	<b>119.76</b>	<b>0.35</b>
<b>A. Solid Waste Disposal on Land</b>	<b>0.00</b>	<b>117</b>	<b>0.00</b>
1. Managed Waste Disposal on Land	0.00	117	0.00
2. Unmanaged Waste Disposal Sites			
3. Other ( <i>please specify</i> )			
<b>B. Wastewater Handling</b>	<b>0.00</b>	<b>3.23</b>	<b>0.34</b>
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	3.23	0.34
3. Other ( <i>please specify</i> )			
<b>C. Waste Incineration</b>	<b>18.34</b>	<b>0.01</b>	<b>0.01</b>
<b>D. Other (<i>please specify</i>)</b>			

**Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 2007)**

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		Gg
<b>Total National Emissions and Removals</b>	<b>43,065.49</b>	<b>294.28</b>	<b>14.19</b>	<b>778.78</b>	<b>56.98</b>	<b>0.00</b>
<b>1. Energy</b>	<b>46,866.18</b>	<b>25.69</b>	<b>1.61</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	46,114.65	4.59	1.60	0.00	0.00	0.00
1. Energy Industries	19,233.30	0.63	0.48	0.00	0.00	0.00
2. Manufacturing Industries and Construction	5,497.28	0.47	0.31	0.00	0.00	0.00
3. Transport	11,904.71	0.59	0.48	0.00	0.00	0.00
4. Other Sectors	9,196.90	2.88	0.32	0.00	0.00	0.00
5. Other	282.46	0.01	0.01	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	751.53	21.10	0.01	0.00	0.00	0.00
1. Solid Fuels	0.00	4.94	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	751.53	16.17	0.01	0.00	0.00	0.00
<b>2. Industrial Processes</b>	<b>632.76</b>	<b>0.97</b>	<b>0.00</b>	<b>778.78</b>	<b>56.98</b>	<b>0.00</b>
A. Mineral Products	418.91	0.00	0.00	0.00	0.00	0.00
B. Chemical Industry	155.86	0.97	0.00	0.00	0.00	0.00
C. Metal Production	57.98	0.00	0.00	0.00	1.42	0.00
D. Other Production <sup>(3)</sup>	0.00	0.00	0.00	0.00	0.00	0.00
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	0.00	0.00	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	778.78	55.55	0.00
G. Other	0.00	0.00	0.00	0.00	0.00	0.00

### Table 7A Summary Report for National Greenhouse Gas Inventories (Scotland, 2007)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
	(Gg)			CO <sub>2</sub> equivalent (Gg)		(Gg)
<b>3. Solvent and Other Product Use</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>4. Agriculture</b>	<b>0.00</b>	<b>147.37</b>	<b>12.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		130.28	0.00	0.00	0.00	0.00
B. Manure Management		17.10	0.79	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	11.44	0.00	0.00	0.00
E. Prescribed Burning of Savannas		NO	NO	0.00	0.00	0.00
F. Field Burning of Agricultural Residues		0.00	0.00	0.00	0.00	0.00
G. Other		0.00	0.00	0.00	0.00	0.00
<b>5. Land-Use Change and Forestry</b>	<b>-4,452</b>	<b>0.48</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-9,315	0.31	0.00			
B. Cropland	6,609	0.00	0.00			
C. Grassland	-2,651	0.10	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	1,684	0.07	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-777.94	0.00	0.00			
<b>6. Waste</b>	<b>18.34</b>	<b>119.8</b>	<b>0.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	116.52	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	3.23	0.34	0.00	0.00	0.00
C. Waste Incineration	18.34	0.01	0.01	0.00	0.00	0.00
D. Other	0.00	0.00	0.00	0.00	0.00	0.00



**Footnotes for Tables 1 to 7<sup>m</sup>**

- a Net flux may be estimated as the sum of emissions and removals
- b Emissions from military, off-shore industry, aviation and shipping are unallocated
- c Fugitive emissions from oil and gas terminals and on-shore fields only
- d Emissions given for information only and are not totalled
- e Fugitive and byproduct emissions are combined.
- f Includes metered dose inhalers
- g Field burning ceased in 1994
- h Sum of removals to forest biomass, forest litter and forest soil
- i Sum of emissions from soils and removals to soils due to land use change (not forestry), Set Aside and liming of agricultural land
- j Sum of emissions from soils due to upland drainage, lowland drainage and peat extraction
- k 5E Removals are increases in crop biomass
- l Emissions from own wastewater treatment by industry not estimated
- m The following IPCC tables are omitted because they are not applicable: Tables 3, 7B sheet 3