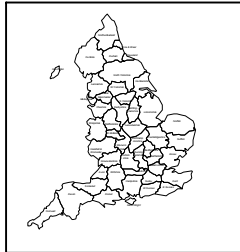


# Appendix 2

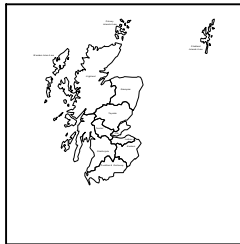
## Greenhouse Gas Inventories for England, Scotland, Wales, N Ireland: Emission Tables

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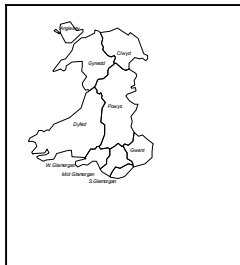
### CONTENTS



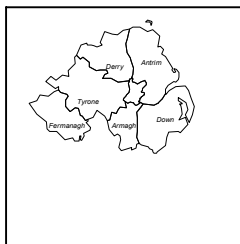
England 1990  
England (Summary) 1995  
England (Summary) 2005  
England 2006



Scotland 1990  
Scotland (Summary) 1995  
Scotland (Summary) 2005  
Scotland 2006



Wales 1990  
Wales (Summary) 1995  
Wales (Summary) 2005  
Wales 2006



Northern Ireland 1990  
Northern Ireland (Summary) 1995  
Northern Ireland (Summary) 2005  
Northern Ireland 2006



UK (Summary) 1990  
UK (Summary) 1995  
UK (Summary) 2005  
UK (Summary) 2006

**Notes on Summary Tables**

1) Within this appendix, completed IPCC sector tables are included for each country for the base year (1990) and latest year (2006). Note that the IPCC Table 3 “Sectoral report for solvent and other product use” is not included here as the gases considered from solvent and other product use are not direct greenhouse gases (although they are indirect greenhouse gases).

2) To summarise sectoral emissions for 1995 and 2005, the appropriate IPCC summary table (Table 7A) is included in this Appendix. For each year and country, “Page 3/3” is not included as this page would list “Memo items” – which are emissions from “International bunkers” – or international aviation and marine. These emissions are not relevant to the country inventories.

## Table 1 Sectoral Report for Energy (England, 1990)

(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>450,219</b>	<b>1,200</b>	<b>14.52</b>
<b>A. Fuel Combustion Activities (Sectoral Approach)</b>	<b>449,295</b>	<b>85.56</b>	<b>14.51</b>
<b>1. Energy Industries</b>	<b>186,747</b>	<b>3.75</b>	<b>4.92</b>
a. Public Electricity and Heat Production	172,438	2.09	4.65
b. Petroleum Refining	11,779	0.35	0.21
c. Manufacture of Solid Fuels and Other Energy Industries	2,530	1.31	0.06
<b>2. Manufacturing Industries and Construction</b>	<b>74,420</b>	<b>9.94</b>	<b>4.16</b>
a. Iron and Steel	13,185	5.63	0.24
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> )	61,235	4.31	3.92
<b>3. Transport</b>	<b>96,541</b>	<b>25.12</b>	<b>3.40</b>
a. Civil Aviation	795	0.11	0.03
b. Road Transportation	91,659	24.86	2.74
c. Railways	1,282	0.11	0.48
d. Navigation	2,585	0.04	0.06
e. Other Transportation ( <i>please specify</i> )	219	0.01	0.09

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

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>87,098</b>	<b>46.63</b>	<b>1.89</b>
a. Commercial/Institutional	21,277	2.66	0.24
b. Residential	62,742	42.95	0.56
c. Agriculture/Forestry/Fisheries	3,079	1.02	1.09
<b>5. Other (Military Aircraft and Naval Vessels)</b>	<b>4,489</b>	<b>0.13</b>	<b>0.13</b>
<b>B. Fugitive Emissions from Fuels</b>	<b>923</b>	<b>1,114.78</b>	<b>0.01</b>
<b>1. Solid Fuels</b>	<b>683</b>	<b>768.73</b>	<b>0.00</b>
a. Coal Mining	0	768.19	0.00
b. Solid Fuel Transformation	683	0.54	0.00
c. Other ( <i>please specify</i> )	NO	NO	NO
<b>2. Oil and Natural Gas</b>	<b>241</b>	<b>346.04</b>	<b>0.01</b>
a. Oil	58	6	0.00
b. Natural Gas	0	336	NO
c. Venting and Flaring	183	4.89	0.01
Flaring	183	1	0.01
Venting	0	4	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>		

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## Table 2(I) Sectoral Report for Industrial Processes (England, 1990)

(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>
CATEGORIES	(Gg)			Gg CO <sub>2</sub> Equivalent	Gg	
<b>Total Industrial Processes</b>	<b>11,895</b>	<b>7.25</b>	<b>77.13</b>	<b>11,375.11</b>	<b>972.88</b>	<b>0.04</b>
<b>A. Mineral Products</b>	<b>8,065</b>	<b>1.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Cement Production	5,792	NO	NO			
2. Lime Production	1,192	NO	NO			
3. Limestone and Dolomite Use	761	NO	NO			
4. Soda Ash Production and Use	140	NO	NO			
5. Asphalt Roofing	NE	NO	NO			
6. Road Paving with Asphalt	NE	NO	NO			
7. Other (fletton bricks)	180	1.12	NO			
<b>B. Chemical Industry</b>	<b>2,630</b>	<b>5.70</b>	<b>77.10</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Ammonia Production	1,322	NE	NO			
2. Nitric Acid Production	NO	NO	10.21			
3. Adipic Acid Production	NO	NO	66.89			
4. Carbide Production	NO	NO	NO			
5. Other ( <i>please specify</i> )	1,308	5.70	NO			
<b>C. Metal Production</b>	<b>1,200</b>	<b>0.43</b>	<b>0.02</b>	<b>0.00</b>	<b>932.77</b>	<b>0.02</b>
1. Iron and Steel Production	1,015	0.43	0.02	0.00	0.00	0.00
2. Ferroalloys Production	IE	NE	NO	0.00	0.00	0.00
3. Aluminium Production	186	NO	NO	0.00	932.77	0.00
4. SF <sub>6</sub> Used in Aluminium and Magnesium Foundries	NO	NO	NO	0.00	0.00	0.02
5. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00

## Table 2(I) Sectoral Report for Industrial Processes (England, 1990)

(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>
CATEGORIES	(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>11,374</b>	<b>10.90</b>	<b>0.00</b>
1. By-product Emissions	NO	NO	NO	11,374	0.00	0.00
2. Fugitive Emissions	NO	NO	NO	0.00	10.90	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>1.39</b>	<b>29.20</b>	<b>0.02</b>
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	0.00	0.08	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	1.39	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	29.12	0.02
<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 (England, 1990)

(Page 1 of 2)

<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>
<b>CATEGORIES</b>	<b>(Gg)</b>	
<b>Total Agriculture</b>	<b>607.73</b>	<b>68.82</b>
<b>A. Enteric Fermentation</b>	<b>501.62</b>	<b>0.00</b>
1. Cattle	388.37	NO
2. Buffalo	NO	NO
3. Sheep	94.78	NO
4. Goats	0.36	NO
5. Camels and Llamas	NO	NO
6. Horses	2.76	NO
7. Mules and Asses	NO	NO
8. Swine	9.46	NO
9. Poultry	0	NO
10. Other (Deer)	5.87	NO
<b>B. Manure Management</b>	<b>94.47</b>	<b>3.60</b>
1. Cattle	64.99	NO
2. Buffalo	NO	0.00
3. Sheep	2.25	0.00
4. Goats	0.01	0.00
5. Camels and Llamas	NO	NO
6. Horses	0.22	0.00
7. Mules and Asses	NO	NO
8. Swine	18.92	0.00
9. Poultry	8.07	0.00
10. Other Livestock - Deer	0.01	0.00

## Table 4 Sectoral Report for Agriculture (England, 1990)

(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>CATEGORIES</b>	<b>(Gg)</b>	
<b>B. Manure Management (continued)</b>		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.1288
13. Solid Storage and Dry Lot	NO	2.9914
14. Other AWMS	NO	0.48
<b>C. Rice Cultivation</b>	<b>NO</b>	<b>NO</b>
<b>D. Agricultural Soils <sup>(1)</sup></b>	<b>NE</b>	<b>64.89</b>
<b>E. Prescribed Burning of Savannas</b>	<b>NO</b>	<b>NO</b>
<b>F. Field Burning of Agricultural Residues</b>	<b>11.64</b>	<b>0.23</b>
1 . Cereals	11.58	0.23
2. Pulse	NO	NO
3 . Tuber and Root	NO	NO
4 . Sugar Cane	NO	NO
5 . Other (Linseed)	0.07	0.00
<b>G. Other</b>	<b>0.00</b>	<b>0.102</b>



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

<b>GREENHOUSE GAS SOURCE AND SINK CATEGORIES</b>	<b>CO<sub>2</sub></b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>
<b>CATEGORIES</b>	<b>(Gg)</b>		
<b>5. Land-Use Change and Forestry</b>	<b>5,683</b>	<b>0.50</b>	<b>0.00</b>
A. Forest Land	-2,716	0.07	0.00
B. Cropland	7,496	0	0
C. Grassland	-2,589	0.11	0.00
D. Wetlands			
E. Settlements	3,895	0.32	0.00
F. Other land			
G. Other activities	-403	0	0

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

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>1,101</b>	<b>1,930</b>	<b>2.92</b>
<b>A. Solid Waste Disposal on Land</b>	<b>0.00</b>	<b>1,896</b>	<b>0.00</b>
1. Managed Waste Disposal on Land	0.00	1,896	0.00
2. Unmanaged Waste Disposal Sites			
3. Other ( <i>please specify</i> )			
<b>B. Wastewater Handling</b>	<b>0.00</b>	<b>27.95</b>	<b>2.78</b>
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	27.95	2.78
3. Other ( <i>please specify</i> )			
<b>C. Waste Incineration</b>	<b>1,101</b>	<b>6.16</b>	<b>0.14</b>
<b>D. Other (<i>please specify</i>)</b>			

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

(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>468,897.95</b>	<b>3,746.07</b>	<b>163.39</b>	<b>11,375.11</b>	<b>972.88</b>	<b>0.04</b>
<b>1. Energy</b>	<b>450,218.64</b>	<b>1,200.34</b>	<b>14.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	449,295.14	85.56	14.51	0.00	0.00	0.00
1. Energy Industries	186,747.29	3.75	4.92	0.00	0.00	0.00
2. Manufacturing Industries and Construction	74,419.74	9.94	4.16	0.00	0.00	0.00
3. Transport	96,541.12	25.12	3.40	0.00	0.00	0.00
4. Other Sectors	87,097.53	46.63	1.89	0.00	0.00	0.00
5. Other	4,489.46	0.13	0.13	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	923.50	1,114.78	0.01	0.00	0.00	0.00
1. Solid Fuels	682.68	768.73	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	240.82	346.04	0.01	0.00	0.00	0.00
<b>2. Industrial Processes</b>	<b>11,894.64</b>	<b>7.25</b>	<b>77.13</b>	<b>11,375.11</b>	<b>972.88</b>	<b>0.04</b>
A. Mineral Products	8,064.57	1.12	0.00	0.00	0.00	0.00
B. Chemical Industry	2,629.59	5.70	77.10	0.00	0.00	0.00
C. Metal Production	1,200.49	0.43	0.02	0.00	932.77	0.02
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	11373.73	10.90	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	1.39	29.20	0.02
G. Other	0.00	0.00	0.00	0.00	0.00	0.00

## Table 7A Summary Report for National Greenhouse Gas Inventories (England, 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>607.73</b>	<b>68.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		501.62	0.00	0.00	0.00	0.00
B. Manure Management		94.47	3.60	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	64.89	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		11.64	0.23	0.00	0.00	0.00
G. Other		0.00	0.10	0.00	0.00	0.00
<b>5. Land-Use Change and Forestry</b>	<b>5,683</b>	<b>0.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-2,716	0	0			
B. Cropland	7,496	0	0			
C. Grassland	-2,589	0.11	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3,895	0.32	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-402.63	0.00	0.00			
<b>6. Waste</b>	<b>1101.4</b>	<b>1930.3</b>	<b>2.92</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	1,896.14	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	27.95	2.78	0.00	0.00	0.00
C. Waste Incineration	1101.4	6.2	0.1	0.0	0.0	0.0
D. Other	0.0	0.0	0.0	0.0	0.0	0.0

## Table 7A Summary Report for National Greenhouse Gas Inventories (England, 1995)

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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>427206.99</b>	<b>3217.32</b>	<b>129.87</b>	<b>15259.01</b>	<b>235.03</b>	<b>0.05</b>
<b>1. Energy</b>	<b>410059.81</b>	<b>918.19</b>	<b>15.81</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	409438.01	60.74	15.80			
1. Energy Industries	148525.37	3.59	3.55			
2. Manufacturing Industries and Construction	69928.24	10.35	3.90			
3. Transport	97275.13	19.51	6.58			
4. Other Sectors	90418.12	27.21	1.67			
5. Other	3291.15	0.09	0.10			
B. Fugitive Emissions from Fuels	621.81	857.45	0.01			
1. Solid Fuels	0.00	531.93	0.00			
2. Oil and Natural Gas	621.81	325.53	0.01			
<b>2. Industrial Processes</b>	<b>11237.46</b>	<b>5.54</b>	<b>46.55</b>	<b>15259.01</b>	<b>235.03</b>	<b>0.05</b>
A. Mineral Products	7461.05	0.77	0.00	0.00	0.00	0.00
B. Chemical Industry	2784.78	4.37	46.53	0.00	0.00	0.00
C. Metal Production	991.63	0.40	0.02	0.00	107.08	0.02
D. Other Production <sup>(3)</sup>						
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	13980.68	70.79	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	1278.34	57.16	0.03
G. Other						

## Table 7A Summary Report for National Greenhouse Gas Inventories (England, 1995)

(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>576.51</b>	<b>64.59</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		485.26	0.00			
B. Manure Management		91.24	3.45			
C. Rice Cultivation		NO	NO			
D. Agricultural Soils		0.00	61.04			
E. Prescribed Burning of Savannas		NO	NO			
F. Field Burning of Agricultural Residues		0.00	0.00			
G. Other		0.00	0.10			
<b>5. Land-Use Change and Forestry</b>	<b>5125.08</b>	<b>0.32</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-2721.65					
B. Cropland	7241.04					
C. Grassland	-2768.09	0.11	0.00			
D. Wetlands	0.00					
E. Settlements	3646.21	0.21	0.00			
F. Other land	0.00					
G. Other activities	-272.43					
<b>6. Waste</b>	<b>784.63</b>	<b>1716.76</b>	<b>2.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	1684.54	0.00			
B. Wastewater Handling	0.00	28.75	2.81			
C. Waste Incineration	784.63	3.47	0.11			
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 (England, 2005)

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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>438121.42</b>	<b>1652.29</b>	<b>91.98</b>	<b>7855.85</b>	<b>166.86</b>	<b>0.04</b>
<b>1. Energy</b>	<b>423647.90</b>	<b>407.27</b>	<b>22.74</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	423130.02	38.36	22.73			
1. Energy Industries	158641.27	5.59	3.33			
2. Manufacturing Industries and Construction	65498.92	9.64	3.54			
3. Transport	105670.44	6.95	14.50			
4. Other Sectors	90928.37	16.11	1.28			
5. Other	2391.02	0.07	0.07			
B. Fugitive Emissions from Fuels	517.88	368.91	0.01			
1. Solid Fuels	0.00	165.87	0.00			
2. Oil and Natural Gas	517.88	203.04	0.01			
<b>2. Industrial Processes</b>	<b>11031.03</b>	<b>2.03</b>	<b>9.04</b>	<b>7855.85</b>	<b>166.86</b>	<b>0.04</b>
A. Mineral Products	6840.49	0.52	0.00	0.00	0.00	0.00
B. Chemical Industry	2681.40	0.96	9.02	0.00	0.00	0.00
C. Metal Production	1509.14	0.55	0.02	1.77	35.07	0.01
D. Other Production <sup>(3)</sup>						
E. Production of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	340.87	110.28	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	7513.21	21.51	0.03
G. Other						

## Table 7A Summary Report for National Greenhouse Gas Inventories (England, 2005)

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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>476.23</b>	<b>56.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		401.06	0.00			
B. Manure Management		75.18	2.67			
C. Rice Cultivation		NO	NO			
D. Agricultural Soils		0.00	54.04			
E. Prescribed Burning of Savannas		NO	NO			
F. Field Burning of Agricultural Residues		0.00	0.00			
G. Other		0.00	0.07			
<b>5. Land-Use Change and Forestry</b>	<b>3045.89</b>	<b>0.69</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-3438.39	0.04	0.00			
B. Cropland	6506.73	0.00	0.00			
C. Grassland	-3463.70	0.41	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3338.48	0.24	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	102.77	0.00	0.00			
<b>6. Waste</b>	<b>396.60</b>	<b>766.07</b>	<b>3.41</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	733.96	0.00			
B. Wastewater Handling	0.00	31.99	3.28			
C. Waste Incineration	396.60	0.12	0.13			
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 (England, 2006)

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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>418,400</b>	<b>380</b>	<b>23.12</b>
<b>A. Fuel Combustion Activities (Sectoral Approach)</b>	<b>417,896</b>	<b>36.55</b>	<b>23.11</b>
<b>1. Energy Industries</b>	<b>157,997</b>	<b>4.58</b>	<b>3.44</b>
a. Public Electricity and Heat Production	144,962	2.98	3.08
b. Petroleum Refining	10,634	0.28	0.28
c. Manufacture of Solid Fuels and Other Energy Industries	2,401	1.31	0.09
<b>2. Manufacturing Industries and Construction</b>	<b>64,086</b>	<b>9.55</b>	<b>3.57</b>
a. Iron and Steel	12,031	5.33	0.20
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> )	52,055	4.23	3.37
<b>3. Transport</b>	<b>106,625</b>	<b>6.34</b>	<b>14.80</b>
a. Civil Aviation	1,443	0.08	0.05
b. Road Transportation	99,316	6.05	13.86
c. Railways	1,707	0.13	0.64
d. Navigation	3,780	0.06	0.09
e. Other Transportation ( <i>please specify</i> )	380	0.02	0.16

## Table 1 Sectoral Report for Energy (England, 2006)

(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>86,831</b>	<b>16.01</b>	<b>1.23</b>
a. Commercial/Institutional	18,689	2.23	0.06
b. Residential	65,565	12.74	0.26
c. Agriculture/Forestry/Fisheries	2,577	1.05	0.91
<b>5. Other (Military Aircraft and Naval Vessels)</b>	<b>2,357</b>	<b>0.07</b>	<b>0.07</b>
<b>B. Fugitive Emissions from Fuels</b>	<b>504</b>	<b>343.39</b>	<b>0.01</b>
<b>1. Solid Fuels</b>	<b>125</b>	<b>152.30</b>	<b>0.00</b>
a. Coal Mining	0	151.91	0.00
b. Solid Fuel Transformation	125	0.40	0.00
c. Other ( <i>please specify</i> )	NO	NO	NO
<b>2. Oil and Natural Gas</b>	<b>379</b>	<b>191.09</b>	<b>0.01</b>
a. Oil	177	2	0.00
b. Natural Gas	0	186	NO
c. Venting and Flaring	202	2.80	0.01
Flaring	202	1	0.01
Venting	0	2	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 (England, 2006)

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
CATEGORIES	(Gg)			Gg CO <sub>2</sub> Equivalent		Gg
<b>Total Industrial Processes</b>	<b>11,091.55</b>	<b>2.13</b>	<b>7.64</b>	<b>7,827.69</b>	<b>184.69</b>	<b>0.03</b>
<b>A. Mineral Products</b>	<b>6,672</b>	<b>0.84</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Cement Production	4,566	NO	NO	0.00	0.00	0.00
2. Lime Production	688	NO	NO	0.00	0.00	0.00
3. Limestone and Dolomite Use	1,057	NO	NO	0.00	0.00	0.00
4. Soda Ash Production and Use	161	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)	200	0.84	NO	0.00	0.00	0.00
<b>B. Chemical Industry</b>	<b>3,133</b>	<b>0.86</b>	<b>7.62</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
1. Ammonia Production	1,560	NE	NO	0.00	0.00	0.00
2. Nitric Acid Production	NO	NO	5.67	0.00	0.00	0.00
3. Adipic Acid Production	NO	NO	1.95	0.00	0.00	0.00
4. Carbide Production	NO	NO	NO	0.00	0.00	0.00
5. Other ( <i>please specify</i> )	1,573	0.86	NO	0.00	0.00	0.00
<b>C. Metal Production</b>	<b>1,286</b>	<b>0.43</b>	<b>0.02</b>	<b>2.03</b>	<b>73.78</b>	<b>0.01</b>
1. Iron and Steel Production	1,020	0.43	0.02	0.00	0.00	0.00
2. Ferroalloys Production	IE	NE	NO	0.00	0.00	0.00
3. Aluminium Production	266	NO	NO	0.00	73.78	0.00
4. SF <sub>6</sub> Used in Aluminium and Magnesium Foundries	NO	NO	NO	2.03	0.00	0.01
5. Other ( <i>please specify</i> )	NO	NO	NO	0.00	0.00	0.00

## Table 2(I) Sectoral Report for Industrial Processes (England, 2006)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
CATEGORIES	(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>303</b>	<b>90.23</b>	<b>0.00</b>
1. By-product Emissions	NO	NO	NO	303	0.00	0.00
2. Fugitive Emissions	NO	NO	NO	0.00	90.23	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>7,522.54</b>	<b>20.69</b>	<b>0.02</b>
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	4,289.16	0.00	0.00
2. Foam Blowing	NO	NO	NO	518.25	0.00	0.00
3. Fire Extinguishers	NO	NO	NO	255.26	0.00	0.00
4. Aerosols/ Metered Dose Inhalers	NO	NO	NO	2,315.44	0.00	0.00
5. Solvents	NO	NO	NO	48.67	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	95.77	20.69	0.02
<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 (England, 2006)

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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>475.44</b>	<b>54.07</b>
<b>A. Enteric Fermentation</b>	<b>400.53</b>	<b>0.00</b>
1. Cattle	308.95	NO
2. Buffalo	NO	NO
3. Sheep	74.67	NO
4. Goats	0.42	NO
5. Camels and Llamas	NO	NO
6. Horses	5.35	NO
7. Mules and Asses	NO	NO
8. Swine	6.09	NO
9. Poultry	0	NO
10. Other (Deer)	5.06	NO
<b>B. Manure Management</b>	<b>74.92</b>	<b>2.68</b>
1. Cattle	50.42	0.00
2. Buffalo	NO	NO
3. Sheep	1.77	0.00
4. Goats	0.01	0.00
5. Camels and Llamas	NO	NO
6. Horses	0.42	0.00
7. Mules and Asses	NO	NO
8. Swine	12.17	0.00
9. Poultry	10.12	0.00
10. Other Livestock - Deer	0.01	0.00

## Table 4 Sectoral Report for Agriculture (England, 2006)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK	CH <sub>4</sub>	N <sub>2</sub> O
CATEGORIES	(Gg)	
<b>B. Manure Management (continued)</b>		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.09
13. Solid Storage and Dry Lot	NO	2.20
14. Other AWMS	NO	0.38
<b>C. Rice Cultivation</b>	<b>NO</b>	<b>NO</b>
<b>D. Agricultural Soils <sup>(1)</sup></b>	<b>NE</b>	<b>51.31</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>0.09</b>

**Table 5 Sectoral Report for Land Use Change and Forestry (England, 2006)**

<b>GREENHOUSE GAS SOURCE AND SINK</b>	<b>CO<sub>2</sub></b>	<b>CH<sub>4</sub></b>	<b>N<sub>2</sub>O</b>
<b>CATEGORIES</b>	<b>(Gg)</b>		
<b>5. Land-Use Change and Forestry</b>	<b>2,971</b>	<b>0.80</b>	<b>0.01</b>
A. Forest Land	-3,264	0	0
B. Cropland	6,522	0	0
C. Grassland	-3,536	0	0
D. Wetlands			
E. Settlements	3,308	0	0
F. Other land			
G. Other activities	-58	0	0

**Table 6 Sectoral Report for Waste (England, 2006)**

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>386</b>	<b>759</b>	<b>3</b>
<b>A. Solid Waste Disposal on Land</b>	<b>0.00</b>	<b>727</b>	<b>0.00</b>
1. Managed Waste Disposal on Land	0.00	727	0.00
2. Unmanaged Waste Disposal Sites			
3. Other ( <i>please specify</i> )			
<b>B. Wastewater Handling</b>	<b>0.00</b>	<b>32.11</b>	<b>3.37</b>
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	32.11	3.37
3. Other ( <i>please specify</i> )			
<b>C. Waste Incineration</b>	<b>386</b>	<b>0.12</b>	<b>0.13</b>
<b>D. Other (<i>please specify</i>)</b>			



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

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GREENHOUSE GAS SOURCE AND SINK	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
CATEGORIES	(Gg)			CO <sub>2</sub> equivalent (Gg)		Gg
<b>Total National Emissions and Removals</b>	<b>432,848.47</b>	<b>1,617.61</b>	<b>88.34</b>	<b>7,827.69</b>	<b>184.69</b>	<b>0.03</b>
<b>1. Energy</b>	<b>418,399.99</b>	<b>379.94</b>	<b>23.12</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Fuel Combustion	417,896.41	36.55	23.11	0.00	0.00	0.00
1. Energy Industries	157,996.86	4.58	3.44	0.00	0.00	0.00
2. Manufacturing Industries and Construction	64,085.73	9.55	3.57	0.00	0.00	0.00
3. Transport	106,625.49	6.34	14.80	0.00	0.00	0.00
4. Other Sectors	86,831.24	16.01	1.23	0.00	0.00	0.00
5. Other	2,357.10	0.07	0.07	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	503.58	343.39	0.01	0.00	0.00	0.00
1. Solid Fuels	124.51	152.30	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	379.08	191.09	0.01	0.00	0.00	0.00
<b>2. Industrial Processes</b>	<b>11,091.55</b>	<b>2.13</b>	<b>7.64</b>	<b>7,827.69</b>	<b>184.69</b>	<b>0.03</b>
A. Mineral Products	6,672.35	0.84	0.00	0.00	0.00	0.00
B. Chemical Industry	3,133.25	0.86	7.62	0.00	0.00	0.00
C. Metal Production	1,285.95	0.43	0.02	2.03	73.78	0.01
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	303.12	90.23	0.00
F. Consumption of Halocarbons and SF <sub>6</sub>	0.00	0.00	0.00	7522.54	20.69	0.02
G. Other	0.00	0.00	0.00	0.00	0.00	0.00

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

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GREENHOUSE GAS SOURCE AND SINK	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>
CATEGORIES	(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>475.44</b>	<b>54.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Enteric Fermentation		400.53	0.00	0.00	0.00	0.00
B. Manure Management		74.92	2.68	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	51.31	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	0.09	0.00	0.00	0.00
<b>5. Land-Use Change and Forestry</b>	<b>2,971</b>	<b>0.80</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Forest Land	-3,264	0	0			
B. Cropland	6,522	0	0			
C. Grassland	-3,536	0.37	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3,308	0.21	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-57.89	0.00	0.00			
<b>6. Waste</b>	<b>385.8</b>	<b>759.3</b>	<b>3.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
A. Solid Waste Disposal on Land	0.00	727.07	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	32.11	3.37	0.00	0.00	0.00
C. Waste Incineration	385.8	0.12	0.13	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