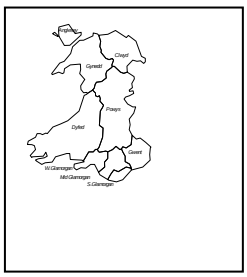
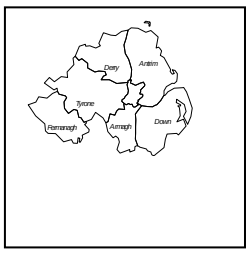
Appendix 2

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

CONTENTS





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 (2008). 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 2007, 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)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
Total Energy	**448,553.26**	**1,196.58**	**14.99**
A. Fuel Combustion Activities (Sectoral Approach)	**447,613.89**	**81.80**	**14.98**
1. Energy Industries	**186,741.86**	**4.21**	**4.95**
a. Public Electricity and Heat Production	172,426.41	2.09	4.66
b. Petroleum Refining	11,778.73	0.35	0.21
c. Manufacture of Solid Fuels and Other Energy Industries	2,536.71	1.77	0.08
2. Manufacturing Industries and Construction	**74,117.40**	**9.92**	**4.17**
a. Iron and Steel	13,184.93	5.63	0.24
b. Non-Ferrous Metals	IE (1)	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 *(please specify)*	60,932.47	4.29	3.93
3. Transport	**96,014.01**	**25.82**	**3.82**
a. Civil Aviation	818.23	0.10	0.03
b. Road Transportation	91,156.73	25.57	3.17
c. Railways	1,275.75	0.11	0.48
d. Navigation	2,579.36	0.04	0.06
e. Other Transportation *(please specify)*	183.94	0.01	0.08

Table 1 Sectoral Report for Energy (England, 1990)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
4. Other Sectors	**86,251.16**	**41.72**	**1.91**
a. Commercial/Institutional	21,251.05	2.65	0.24
b. Residential	61,921.48	38.04	0.55
c. Agriculture/Forestry/Fisheries	3,078.63	1.03	1.12
5. Other (Military Aircraft and Naval Vessels)	**4,489.46**	**0.13**	**0.13**
B. Fugitive Emissions from Fuels	**939.37**	**1,114.78**	**0.01**
1. Solid Fuels	**682.68**	**768.73**	**0.00**
a. Coal Mining	0.00	768.19	0.00
b. Solid Fuel Transformation	682.68	0.54	0.00
c. Other *(please specify)*	NO (1)	NO	NO
2. Oil and Natural Gas	**256.68**	**346.04**	**0.01**
a. Oil	57.74	5.58	0.00
b. Natural Gas	15.73	335.58	0.00
c. Venting and Flaring	183.21	4.89	0.01
Flaring	182.95	1.23	0.01
Venting	0.26	3.65	0.00
Memo Items: (2)			
International Bunkers	**NA (1)**	**NA**	**NA**
Aviation	**NA**	**NA**	**NA**
Marine	**NA**	**NA**	**NA**
CO_2 Emissions from Biomass	**NE (1)**		

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

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs (3)	PFCs (3)	SF_6
	(Gg)			Gg CO2 Equivalent		Gg
Total Industrial Processes	**11,894.66**	**8.74**	**77.13**	**11,383.58**	**972.79**	**0.04**
A. Mineral Products	**8,064.57**	**1.12**	**0.00**	**0.00**	**0.00**	**0.00**
1. Cement Production	5,792.44	NO	NO			
2. Lime Production	1,191.52	NO	NO			
3. Limestone and Dolomite Use	760.63	NO	NO			
4. Soda Ash Production and Use	140.11	NO	NO			
5. Asphalt Roofing	NE	NO	NO			
6. Road Paving with Asphalt	NE	NO	NO			
7. Other (fletton bricks)	179.87	1.12	NO			
B. Chemical Industry	**2,629.61**	**7.18**	**77.10**	**0.00**	**0.00**	**0.00**
1. Ammonia Production	1,321.67	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 *(please specify)*	1,307.94	7.18	NO			
C. Metal Production	**1,200.49**	**0.43**	**0.02**	**0.00**	**932.77**	**0.02**
1. Iron and Steel Production	1,014.85	0.43	0.02			
2. Ferroalloys Production	IE	NE	NO			
3. Aluminium Production	185.64	NO	NO		932.77	
4. SF_6 Used in Aluminium and Magnesium Foundries	NO	NO	NO	0.00		0.02
5. Other *(please specify)*	NO	NO	NO			

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

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			Gg CO2 Equivalent		Gg
D. Other Production	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1. Pulp and Paper	NO	NO	NO	NE	NE	NE
2. Food and Drink[4]	IE	NO	NO	NE	NE	NE
E. Production of Halocarbons and SF_6	**0.00**	**0.00**	**0.00**	**11,373.73**	**10.90**	**0.00**
1. By-product Emissions	NO	NO	NO	11,373.73	NO	NO
2. Fugitive Emissions	NO	NO	NO	IE	10.90	NO
3. Other *(please specify)*	NO	NO	NO	NA	NA	NA
F. Consumption of Halocarbons and SF_6	**0.00**	**0.00**	**0.00**	**9.85**	**29.12**	**0.02**
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	0.00	0.00	NA
2. Foam Blowing	NO	NO	NO	NO	NO	NA
3. Fire Extinguishers	NO	NO	NO	0.00	0.00	NO
4. Aerosols/ Metered Dose Inhalers	NO	NO	NO	9.85	NO	NO
5. Solvents	NO	NO	NO	0.00	0.00	NO
6. Other applications using ODS substitutes	NO	NO	NO	NA	NA	NA
7. Semiconductor Manufacture	NO	NO	NO	IE	IE	IE
8. Electrical Equipment	NO	NO	NO	IE	IE	IE
9. Other *(please specify)*				0.00	29.12	0.02
G. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Table 4 Sectoral Report for Agriculture (England, 1990)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O
	(Gg)	
Total Agriculture	**632.26**	**71.31**
A. Enteric Fermentation	**499.89**	**0.00**
1. Cattle	392.21	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	NO	NO
10. Other (Deer)	0.31	NO
B. Manure Management	**120.73**	**5.85**
1. Cattle	65.63	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	44.54	0.00
9. Poultry	8.07	0.00
10. Other Livestock (Deer)	0.01	0.00

Table 4 Sectoral Report for Agriculture (England, 1990)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O
	(Gg)	
B. Manure Management (continued)		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.16
13. Solid Storage and Dry Lot	NO	3.79
14. Other AWMS	NO	1.89
C. Rice Cultivation	**NO**	**NO**
D. Agricultural Soils	**NE**	**65.23**
E. Prescribed Burning of Savannas	**NO**	**NO**
F. Field Burning of Agricultural Residues	**11.64**	**0.23**
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
G. Other	**0.00**	**0.00**

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

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
5. Land-Use Change and Forestry	**5,724.56**	**0.50**	**0.00**
A. Forest Land	-2,716.33	0.07	0.00
B. Cropland	7,496.46	0.00	0.00
C. Grassland	-2,548.99	0.11	0.00
D. Wetlands			
E. Settlements	4,017.07	0.32	0.00
F. Other land			
G. Other activities	-523.66	0.00	0.00

Table 6 Sectoral Report for Waste (England, 1990)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
Total Waste	**1,101.45**	**1,923.24**	**2.90**
A. Solid Waste Disposal on Land	**0.00**	**1,889.27**	**0.00**
1. Managed Waste Disposal on Land	0.00	1,889.27	0.00
2. Unmanaged Waste Disposal Sites			
3. Other *(please specify)*			
B. Wastewater Handling	**0.00**	**27.82**	**2.76**
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	27.82	2.76
3. Other *(please specify)*			
C. Waste Incineration	**1,101.45**	**6.16**	**0.14**
D. Other *(please specify)*			

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

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		Gg
Total National Emissions and Removals	**467,273.93**	**3,761.32**	**166.33**	**11,383.58**	**972.79**	**0.04**
1. Energy	**448,553.26**	**1,196.58**	**14.99**	**0.00**	**0.00**	**0.00**
A. Fuel Combustion	447,613.89	81.80	14.98	0.00	0.00	0.00
1. Energy Industries	186,741.86	4.21	4.95	0.00	0.00	0.00
2. Manufacturing Industries and Construction	74,117.40	9.92	4.17	0.00	0.00	0.00
3. Transport	96,014.01	25.82	3.82	0.00	0.00	0.00
4. Other Sectors	86,251.16	41.72	1.91	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	939.37	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	256.68	346.04	0.01	0.00	0.00	0.00
2. Industrial Processes	**11,894.66**	**8.74**	**77.13**	**11,383.58**	**972.79**	**0.04**
A. Mineral Products	8,064.57	1.12	0.00	0.00	0.00	0.00
B. Chemical Industry	2,629.61	7.18	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 (4)	0.00	0.00	0.00	0.00	0.00	0.00
E. Production of Halocarbons and SF_6	0.00	0.00	0.00	11,373.73	10.90	0.00
F. Consumption of Halocarbons and SF_6	0.00	0.00	0.00	9.85	29.12	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_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		(Gg)
3. Solvent and Other Product Use	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**632.26**	**71.31**	**0.00**	**0.00**	**0.00**
A. Enteric Fermentation		499.89	0.00	0.00	0.00	0.00
B. Manure Management		120.73	5.85	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	65.23	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	0.00	0.00	0.00	0.00
5. Land-Use Change and Forestry	**5,724.56**	**0.50**	**0.00**	**0.00**	**0.00**	**0.00**
A. Forest Land	-2,716.33	0.07	0.00			
B. Cropland	7,496.46	0.00	0.00			
C. Grassland	-2,548.99	0.11	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	4,017.07	0.32	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-523.66	0.00	0.00			
6. Waste	**1,101.45**	**1,923.24**	**2.90**	**0.00**	**0.00**	**0.00**
A. Solid Waste Disposal on Land	0.00	1,889.27	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	27.82	2.76	0.00	0.00	0.00
C. Waste Incineration	1,101.45	6.16	0.14	0.00	0.00	0.00
D. Other	0.00	0.00	0.00	0.00	0.00	0.00

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

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		Gg
Total National Emissions and Removals	**426,329.93**	**3,238.40**	**130.62**	**15,231.3**	**227.46**	**0.05**
1. Energy	**409,107.62**	**919.26**	**14.49**	**0.00**	**0.00**	**0.00**
A. Fuel Combustion	408,470.49	61.81	14.49	0.00	0.00	0.00
1. Energy Industries	148,579.38	4.70	3.58	0.00		
2. Manufacturing Industries and Construction	69,589.95	10.35	3.90	0.00		
3. Transport	96,933.66	20.43	5.21	0.00		
4. Other Sectors	90,076.34	26.24	1.70	0.00		
5. Other	3,291.15	0.09	0.10	0.00		
B. Fugitive Emissions from Fuels	637.14	857.45	0.01	0.00	0.00	0.00
1. Solid Fuels	185.65	532.33	0.00	0.00		
2. Oil and Natural Gas	451.48	325.12	0.01	0.00		
2. Industrial Processes	**11,237.48**	**6.99**	**46.55**	**15,231**	**227.46**	**0.05**
A. Mineral Products	7,461.05	0.77	0.00			
B. Chemical Industry	2,784.80	5.82	46.53			
C. Metal Production	991.63	0.40	0.02	0.00	107.08	0.02
D. Other Production (4)						
E. Production of Halocarbons and SF_6	0.00	0.00	0.00	13981	70.79	
F. Consumption of Halocarbons and SF_6	0.00	0.00	0.00	1251	49.59	0.03
G. Other						

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

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		(Gg)
3. Solvent and Other Product Use	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**601.36**	**66.67**	**0.00**	**0.00**	**0.00**
A. Enteric Fermentation		483.72	0.00			
B. Manure Management		117.64	5.35			
C. Rice Cultivation		NO	NO			
D. Agricultural Soils		0.00	61.31			
E. Prescribed Burning of Savannas		NO	NO			
F. Field Burning of Agricultural Residues		0.00	0.00			
G. Other		0.00	0.00			
5. Land-Use Change and Forestry	**5,200**	**0.77**	**0.01**	**0.00**	**0.00**	**0.00**
A. Forest Land	-2,722	0.45	0.01			
B. Cropland	7,241	0.00	0.00			
C. Grassland	-2,725	0.11	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3,727	0.21	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-320.54	0.00	0.00			
6. Waste	**784.6**	**1710.0**	**2.90**	**0.00**	**0.00**	**0.00**
A. Solid Waste Disposal on Land	0.00	1,677.92	0.00			
B. Wastewater Handling	0.00	28.62	2.79			
C. Waste Incineration	784.64	3.47	0.11			
D. Other						

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

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		Gg
Total National Emissions and Removals	**426,788.83**	**1,615.91**	**79.64**	**9,293.01**	**118.80**	**0.03**
1. Energy	**411,823.04**	**329.44**	**12.50**	**0.00**	**0.00**	**0.00**
A. Fuel Combustion	411,401.07	37.63	12.49	0.00	0.00	0.00
1. Energy Industries	159,132.96	5.20	3.44	0.00	0.00	0.00
2. Manufacturing Industries and Construction	61,202.80	9.39	3.55	0.00	0.00	0.00
3. Transport	106,879.85	6.10	4.21	0.00	0.00	0.00
4. Other Sectors	81,715.51	16.87	1.21	0.00	0.00	0.00
5. Other	2,469.95	0.07	0.07	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	421.97	291.81	0.01	0.00	0.00	0.00
1. Solid Fuels	123.50	104.46	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	298.47	187.35	0.01	0.00	0.00	0.00
2. Industrial Processes	**11,507.49**	**4.05**	**8.90**	**9,293.01**	**118.80**	**0.03**
A. Mineral Products	7,069.34	0.88	0.00	0.00	0.00	0.00
B. Chemical Industry	2,773.10	2.61	8.88	0.00	0.00	0.00
C. Metal Production	1,665.06	0.56	0.02	2.17	41.27	0.01
D. Other Production (4)	0.00	0.00	0.00	0.00	0.00	0.00
E. Production of Halocarbons and SF_6	0.00	0.00	0.00	175.60	54.56	0.00
F. Consumption of Halocarbons and SF_6	0.00	0.00	0.00	9115.23	22.97	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, 2007)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		(Gg)
3. Solvent and Other Product Use	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**495.91**	**54.78**	**0.00**	**0.00**	**0.00**
A. Enteric Fermentation		404.71	0.00	0.00	0.00	0.00
B. Manure Management		91.20	4.32	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	50.46	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
5. Land-Use Change and Forestry	**3,045**	**0.81**	**0.01**	**0.00**	**0.00**	**0.00**
A. Forest Land	-2,905	0.29	0.00			
B. Cropland	6,541	0.00	0.00			
C. Grassland	-3,552	0.31	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3,372	0.20	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-410.82	0.00	0.00			
6. Waste	**413.2**	**785.7**	**3.45**	**0.00**	**0.00**	**0.00**
A. Solid Waste Disposal on Land	0.00	753.51	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	32.08	3.32	0.00	0.00	0.00
C. Waste Incineration	413.19	0.11	0.13	0.00	0.00	0.00
D. Other	0.00	0.00	0.00	0.00	0.00	0.00

Table 1 Sectoral Report for Energy (England, 2008)

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
Total Energy	**401,901.36**	**336.87**	**11.35**
A. Fuel Combustion Activities (Sectoral Approach)	**401,483.49**	**37.46**	**11.35**
1. Energy Industries	**151,955.59**	**5.34**	**3.09**
a. Public Electricity and Heat Production	139,031.25	3.45	2.71
b. Petroleum Refining	10,163.12	0.26	0.26
c. Manufacture of Solid Fuels and Other Energy Industries	2,761.21	1.63	0.12
2. Manufacturing Industries and Construction	**58,813.59**	**8.77**	**3.17**
a. Iron and Steel	11,784.00	4.76	0.19
b. Non-Ferrous Metals	IE (1)	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 *(please specify)*	47,029.59	4.01	2.98
3. Transport	**103,432.90**	**5.38**	**3.79**
a. Civil Aviation	1,236.70	0.05	0.04
b. Road Transportation	96,384.13	5.11	2.84
c. Railways	1,726.74	0.13	0.65
d. Navigation	3,680.86	0.06	0.09
e. Other Transportation *(please specify)*	404.47	0.02	0.17

Table 1 Sectoral Report for Energy (England, 2008)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
4. Other Sectors	**84,756.74**	**17.90**	**1.22**
a. Commercial/Institutional	18,654.50	2.20	0.06
b. Residential	63,613.15	14.72	0.26
c. Agriculture/Forestry/Fisheries	2,489.09	0.99	0.89
5. Other (Military Aircraft and Naval Vessels)	**2,524.68**	**0.07**	**0.08**
B. Fugitive Emissions from Fuels	**417.86**	**299.41**	**0.01**
1. Solid Fuels	**118.29**	**111.88**	**0.00**
a. Coal Mining	0.00	111.52	0.00
b. Solid Fuel Transformation	118.29	0.36	0.00
c. Other *(please specify)*	NO (1)	NO	NO
2. Oil and Natural Gas	**299.58**	**187.53**	**0.01**
a. Oil	94.73	2.53	0.00
b. Natural Gas	7.34	181.72	0.00
c. Venting and Flaring	197.50	3.28	0.01
Flaring	197.43	0.83	0.01
Venting	0.07	2.45	0.00
Memo Items: (2)			
International Bunkers	**NA (1)**	**NA**	**NA**
Aviation	**NA**	**NA**	**NA**
Marine	**NA**	**NA**	**NA**
CO_2 Emissions from Biomass	**NE (1)**		

Table 2(I) Sectoral Report for Industrial Processes (England, 2008)

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs (3)	PFCs (3)	SF_6
	(Gg)			Gg CO2 Equivalent		Gg
Total Industrial Processes	**11,086.67**	**3.87**	**7.80**	**9,488.72**	**96.49**	**0.03**
A. Mineral Products	**6,423.59**	**0.78**	**0.00**	**0.00**	**0.00**	**0.00**
1. Cement Production	3,934.25	NO	NO			
2. Lime Production	875.85	NO	NO			
3. Limestone and Dolomite Use	1,198.43	NO	NO			
4. Soda Ash Production and Use	183.38	NO	NO			
5. Asphalt Roofing	NE	NO	NO			
6. Road Paving with Asphalt	NE	NO	NO			
7. Other (fletton bricks)	231.68	0.78	NO			
B. Chemical Industry	**2,682.52**	**2.45**	**7.78**	**0.00**	**0.00**	**0.00**
1. Ammonia Production	1,108.00	NE	NO			
2. Nitric Acid Production	NO	NO	4.72			
3. Adipic Acid Production	NO	NO	3.05			
4. Carbide Production	NO	NO	NO			
5. Other *(please specify)*	1,574.52	2.45	NO			
C. Metal Production	**1,980.56**	**0.64**	**0.02**	**24.40**	**63.27**	**0.00**
1. Iron and Steel Production	1,689.15	0.64	0.02			
2. Ferroalloys Production	IE	NE	NO			
3. Aluminium Production	291.40	NO	NO		63.27	
4. SF_6 Used in Aluminium and Magnesium Foundries	NO	NO	NO	24.40		0.00
5. Other *(please specify)*	NO	NO	NO			

Table 2(I) Sectoral Report for Industrial Processes (England, 2008)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			Gg CO2 Equivalent		Gg
D. Other Production	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
1. Pulp and Paper	NO	NO	NO	NE	NE	NE
2. Food and Drink[(4)]	IE	NO	NO	NE	NE	NE
E. Production of Halocarbons and SF_6	**0.00**	**0.00**	**0.00**	**125.86**	**11.67**	**0.00**
1. By-product Emissions	NO	NO	NO	125.86	NO	NO
2. Fugitive Emissions	NO	NO	NO	NO	11.67	NO
3. Other *(please specify)*	NO	NO	NO	NO	NO	NO
F. Consumption of Halocarbons and SF_6	**0.00**	**0.00**	**0.00**	**9,338.46**	**21.55**	**0.02**
1. Refrigeration and Air Conditioning Equipment	NO	NO	NO	6,173.89	2.31	NA
2. Foam Blowing	NO	NO	NO	342.38	NO	NA
3. Fire Extinguishers	NO	NO	NO	167.24	0.27	NO
4. Aerosols/ Metered Dose Inhalers	NO	NO	NO	2,526.45	NO	NO
5. Solvents	NO	NO	NO	69.29	0.00	NO
6. Other applications using ODS substitutes	NO	NO	NO	NE	NE	NE
7. Semiconductor Manufacture	NO	NO	NO	IE	IE	IE
8. Electrical Equipment	NO	NO	NO	IE	IE	IE
9. Other *(please specify)*	NO	NO	NO	59.22	18.97	0.02
G. Other *(please specify)*	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Table 4 Sectoral Report for Agriculture (England, 2008)

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O
	(Gg)	
Total Agriculture	**632.26**	**71.31**
A. Enteric Fermentation	**499.89**	**0.00**
1. Cattle	392.21	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	NO	NO
10. Other (Deer)	0.31	NO
B. Manure Management	**120.73**	**5.85**
1. Cattle	65.63	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	44.54	0.00
9. Poultry	8.07	0.00
10. Other Livestock (Deer)	0.01	0.00

Table 4 Sectoral Report for Agriculture (England, 2008)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH_4	N_2O
	(Gg)	
B. Manure Management (continued)		
11. Anaerobic Lagoons	NO	NO
12. Liquid Systems	NO	0.11
13. Solid Storage and Dry Lot	NO	2.73
14. Other AWMS	NO	1.42
C. Rice Cultivation	**NO**	**NO**
D. Agricultural Soils	**NE**	**51.48**
E. Prescribed Burning of Savannas	**NO**	**NO**
F. Field Burning of Agricultural Residues	**0.00**	**0.00**
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
G. Other	**0.00**	**0.00**

Table 5 Sectoral Report for Land Use Change and Forestry (England, 2008)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
5. Land-Use Change and Forestry	**2,972.32**	**0.74**	**0.01**
A. Forest Land	-2,669.43	0.28	0.00
B. Cropland	6,443.95	0.00	0.00
C. Grassland	-3,566.82	0.27	0.00
D. Wetlands			
E. Settlements	3,344.72	0.19	0.00
F. Other land			
G. Other activities	-580.09	0.00	0.00

Table 6 Sectoral Report for Waste (England, 2008)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O
	(Gg)		
Total Waste	**364.25**	**776.58**	**3.48**
A. Solid Waste Disposal on Land	**0.00**	**744.27**	**0.00**
1. Managed Waste Disposal on Land	0.00	744.27	0.00
2. Unmanaged Waste Disposal Sites			
3. Other *(please specify)*			
B. Wastewater Handling	**0.00**	**32.20**	**3.34**
1. Industrial Wastewater			
2. Domestic and Commercial Wastewater	0.00	32.20	3.34
3. Other *(please specify)*			
C. Waste Incineration	**364.25**	**0.11**	**0.13**
D. Other *(please specify)*			

Table 7A Summary Report for National Greenhouse Gas Inventories (England, 2008)

(Page 1 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		Gg
Total National Emissions and Removals	**416,324.59**	**1,604.30**	**78.37**	**9,488.72**	**96.49**	**0.03**
1. Energy	**401,901.36**	**336.87**	**11.35**	**0.00**	**0.00**	**0.00**
A. Fuel Combustion	401,483.49	37.46	11.35	0.00	0.00	0.00
1. Energy Industries	151,955.59	5.34	3.09	0.00	0.00	0.00
2. Manufacturing Industries and Construction	58,813.59	8.77	3.17	0.00	0.00	0.00
3. Transport	103,432.90	5.38	3.79	0.00	0.00	0.00
4. Other Sectors	84,756.74	17.90	1.22	0.00	0.00	0.00
5. Other	2,524.68	0.07	0.08	0.00	0.00	0.00
B. Fugitive Emissions from Fuels	417.86	299.41	0.01	0.00	0.00	0.00
1. Solid Fuels	118.29	111.88	0.00	0.00	0.00	0.00
2. Oil and Natural Gas	299.58	187.53	0.01	0.00	0.00	0.00
2. Industrial Processes	**11,086.67**	**3.87**	**7.80**	**9,488.72**	**96.49**	**0.03**
A. Mineral Products	6,423.59	0.78	0.00	0.00	0.00	0.00
B. Chemical Industry	2,682.52	2.45	7.78	0.00	0.00	0.00
C. Metal Production	1,980.56	0.64	0.02	24.40	63.27	0.00
D. Other Production (4)	0.00	0.00	0.00	0.00	0.00	0.00
E. Production of Halocarbons and SF_6	0.00	0.00	0.00	125.86	11.67	0.00
F. Consumption of Halocarbons and SF_6	0.00	0.00	0.00	9,338.46	21.55	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, 2008)

(Page 2 of 2)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6
	(Gg)			CO_2 equivalent (Gg)		(Gg)
3. Solvent and Other Product Use	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
4. Agriculture	**0.00**	**486.24**	**55.73**	**0.00**	**0.00**	**0.00**
A. Enteric Fermentation		397.23	0.00	0.00	0.00	0.00
B. Manure Management		89.00	4.26	0.00	0.00	0.00
C. Rice Cultivation		NO	NO	0.00	0.00	0.00
D. Agricultural Soils		NE	51.48	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
5. Land-Use Change and Forestry	**2,972.32**	**0.74**	**0.01**	**0.00**	**0.00**	**0.00**
A. Forest Land	-2,669.43	0.28	0.00			
B. Cropland	6,443.95	0.00	0.00			
C. Grassland	-3,566.82	0.27	0.00			
D. Wetlands	0.00	0.00	0.00			
E. Settlements	3,344.72	0.19	0.00			
F. Other land	0.00	0.00	0.00			
G. Other activities	-580.09	0.00	0.00			
6. Waste	**364.25**	**776.58**	**3.48**	**0.00**	**0.00**	**0.00**
A. Solid Waste Disposal on Land	0.00	744.27	0.00	0.00	0.00	0.00
B. Wastewater Handling	0.00	32.20	3.34	0.00	0.00	0.00
C. Waste Incineration	364.25	0.11	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

(1) The following terms are used in inventory reporting: IE - Included Elsewhere; NE - Not Estimated; NA - Not Applicable; NO - Not Occurring

(2) Emissions from military, off-shore industry, aviation and shipping are unallocated

(3) Under IPCC Guidelines, emissions of CO_2, CH_4, N_2O and SF_6 are to be expressed as Gg of gas; the emissions of HFCs and PFCs are to be expressed as CO_2 equivalent emissions.

(4) CO_2 from Food and Drink Production (e.g. gasification of water) can be of biogenic or non-biogenic origin. Only information on CO_2 emissions of non-biogenic origin should be reported.