

Appendix 5: mapping between source name, IPCC category and National Communication

This presents a mapping between source name, IPCC category and National Communication category showing the 2010 emissions for England, Wales Scotland and Northern Ireland.

NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Agriculture	1A4ci_Agriculture/Forestry/Fishing:Stationary	Agriculture - stationary combustion	304.53	47.50	59.87	44.73	0.00
		Miscellaneous industrial/commercial combustion	0.00	0.00	0.00	0.00	0.00
	1A4cii_Agriculture/Forestry/Fishing:Off-road	Agricultural engines	5.37	0.88	1.30	1.11	0.00
		Agriculture - mobile machinery	2415.72	469.19	745.76	504.92	0.00
	2B5_Chemical_Industry_Other	Agriculture - agrochemicals use	33.21	0.85	3.20	1.38	0.00
	4A10_Enteric_Fermentation_Deer	Agriculture livestock - deer enteric	3.85	0.57	1.13	0.16	0.00
	4A1a_Enteric_Fermentation_Dairy	Agriculture livestock - dairy cattle enteric	2714.34	657.78	431.88	518.05	0.00
	4A1b_Enteric_Fermentation_Non-Dairy	Agriculture livestock - other cattle enteric	3960.01	1201.15	1508.42	834.31	0.00
	4A3_Enteric_Fermentation_Sheep	Agriculture livestock - sheep enteric	1383.41	184.12	687.91	846.81	0.00
	4A4_Enteric_Fermentation_Goats	Agriculture livestock - goats enteric	8.29	0.30	0.39	0.78	0.00
	4A6_Enteric_Fermentation_Horses	Agriculture livestock - horses enteric	80.90	4.72	13.75	18.34	0.00
	4A8_Enteric_Fermentation_Swine	Agriculture livestock - pigs enteric	113.59	13.38	12.94	0.85	0.00
	4B10_Manure_Management_Deer	Agriculture livestock - deer wastes	0.10	0.01	0.03	0.00	0.00
	4B12_Liquid_Systems	Agriculture livestock - manure liquid systems	35.15	8.22	6.39	6.04	0.00
	4B13_Solid_Storage_and_Drylot	Agriculture livestock - manure solid storage and dry lot	659.62	164.61	208.72	121.55	0.00
	4B14_Other	Agriculture livestock - manure other	365.21	35.08	40.76	15.13	0.00
	4B1a_Manure_Management_Dairy	Agriculture livestock - dairy cattle wastes	823.22	199.49	130.98	157.12	0.00
	4B1b_Manure_Management_Non-Dairy	Agriculture livestock - other cattle wastes	255.95	74.38	84.04	53.30	0.00

NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Agriculture (continued)	4B3_Manure_Management_Sheep	Agriculture livestock - sheep goats and deer wastes	40.68	5.36	19.81	24.28	0.00
	4B4_Manure_Management_Goats	Agriculture livestock - goats wastes	0.19	0.01	0.01	0.02	0.00
	4B6_Manure_Management_Horses	Agriculture livestock - horses wastes	6.24	0.36	1.06	1.41	0.00
	4B8_Manure_Management_Swine	Agriculture livestock - pigs wastes	415.89	49.35	47.45	3.06	0.00
	4B9_Manure_Management_Poultry	Agriculture livestock - broilers wastes	150.63	16.37	20.16	7.50	0.00
		Agriculture livestock - laying hens wastes	38.79	4.22	5.19	1.93	0.00
		Agriculture livestock - other poultry wastes	11.72	1.27	1.57	0.58	0.00
	4D_Agricultural_Soils	Agricultural soils	17841.27	2124.61	3918.52	2501.19	0.00
	4F1_Field_Burning_of_Agricultural_Residues	Field burning	0.00	0.00	0.00	0.00	0.00
	4F5_Field_Burning_of_Agricultural_Residues	Field burning	0.00	0.00	0.00	0.00	0.00
Agriculture Total			31667.90	5263.79	7951.23	5664.57	0.00
Business	1A2a_Manufacturing_Industry&Construction:I&S	Blast furnaces	2097.26	0.00	4.86	1265.43	0.00
		Iron and steel - combustion plant	4643.28	0.00	47.13	4629.31	0.00
	1A2b_Non-Ferrous_Metals	Non-Ferrous Metal (combustion)	559.65	3.35	16.27	106.96	0.00
	1A2c_Chemicals	Ammonia production - combustion	510.83	0.00	0.00	0.00	0.00
		Chemicals (combustion)	5924.75	152.16	929.68	292.92	0.00
	1A2d_Pulp_Paper_Print	Pulp, Paper and Print (combustion)	2798.51	38.27	430.34	166.84	0.00
	1A2e_Food_drink_tobacco	Food & drink, tobacco (combustion)	3896.80	126.47	528.93	213.11	0.00
	1A2f_Manufacturing_Industry&Construction:Other	Autogeneration - exported to grid	3226.08	12.70	255.11	163.61	0.00
		Autogenerators	3983.74	15.68	315.03	202.04	0.00
		Cement production - combustion	1643.42	78.71	151.04	157.25	0.00
		Lime production - non decarbonising	618.00	0.00	0.00	0.00	0.00
		Other industrial combustion	14365.06	1079.65	2112.90	1351.53	0.00
	1A2fii_Manufacturing_Industry&Construction:Off-road	Industrial engines	10.07	0.26	0.97	0.42	0.00

		Industrial off-road mobile machinery	5986.05	230.26	547.95	412.03	0.00
NCFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Business (continued)	1A4a_Commercial/Institutional	Miscellaneous industrial/commercial combustion	8282.40	247.49	1084.60	369.48	0.00
	2B5_Carbon from NEU of products	Other industrial combustion	307.12	7.89	29.60	12.76	0.00
	2F1_Refrigeration_and_Air_Conditioning_Equipment	Commercial Refrigeration	2659.18	68.35	256.29	110.52	0.00
		Domestic Refrigeration	187.50	6.46	18.75	10.79	0.00
		Industrial Refrigeration	198.04	5.09	19.09	8.23	0.00
		Mobile Air Conditioning	3953.10	133.69	390.71	171.43	0.00
		Refrigerated Transport	733.78	18.86	70.72	30.50	0.00
		Stationary Air Conditioning	1495.54	51.52	149.52	86.08	0.00
		2F2_Foam_Blowing	Foams	250.74	8.64	25.07	14.43
	2F3_Fire_Extinguishers	Firefighting	170.77	5.88	17.07	9.83	0.00
	2F5_Solvents	Other PFC use	0.00	0.00	0.00	0.00	0.00
		Precision cleaning - HFC	89.98	3.10	9.00	5.18	0.00
	2F9_Other_(one_component_foams)	One Component Foams	0.00	0.00	0.00	0.00	0.00
	2F9_Other_(semiconductors_electrical_sporting_goods)	Electrical insulation	438.65	3.98	32.83	32.00	0.00
		Electronics - PFC	17.14	0.00	47.98	3.43	0.00
Electronics - SF6		3.76	0.00	10.52	0.75	0.00	
Sporting goods		30.83	1.06	3.08	1.77	0.00	
Business Total			69082.02	2299.54	7505.02	9828.63	0.00
Energy Supply	1A1a_Public_Electricity&Heat_Production	Miscellaneous industrial/commercial combustion	37.38	0.00	1.80	0.00	0.00
		Power stations	125716.57	3950.38	15848.46	11469.82	0.00
		Public sector combustion	0.35	0.01	0.03	0.02	0.00
	1A1b_Petroleum_Refining	Refineries - combustion	10931.39	0.00	2147.14	3429.89	0.00
	1A1ci_Manufacture of Solid Fuels-coke	Coke production	544.05	0.00	0.00	846.36	0.00

		Solid smokeless fuel production	0.00	0.00	0.00	0.00	0.00
NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Energy Supply (continued)	1A1cii_Other_Energy_Industries	Collieries - combustion	171.18	0.00	0.00	1.09	0.00
		Gas production	687.00	0.00	385.32	324.15	0.00
		Gas Production - combustion at gas separation plant	86.74	0.00	94.87	6.66	326.48
		Gas Production - gas combustion	631.86	0.00	690.43	48.64	2462.28
		Nuclear fuel production	0.00	0.00	0.00	0.00	0.00
		Oil Production - gas combustion	365.51	0.00	700.44	0.00	10122.08
		Town gas manufacture	0.00	0.00	0.00	0.00	0.00
	1B1ai_Post-Mining_Activities	Coal storage and transport	178.14	0.00	0.00	1.14	0.00
	1B1ai_Underground_Mines	Closed Coal Mines	86.73	0.00	74.11	205.66	0.00
		Deep-mined coal	1161.89	0.00	0.00	7.42	0.00
	1B1aii_Surface_Mines	Open-cast coal	19.42	0.00	42.70	12.27	0.00
	1B1b_Solid_Fuel_Transformation	Coke production	5.17	0.00	0.00	1.61	0.00
		Iron and steel - flaring	80.96	0.00	0.00	14.48	0.00
		Solid smokeless fuel production	103.74	0.00	0.00	25.05	0.00
	1B2ai_Oil_Exploration	Oil Production - Offshore Well Testing	0.00	0.00	0.00	0.00	38.49
	1B2aii_Oil_Production	Oil Production - process emissions	1.77	0.00	6.11	0.00	319.28
	1B2aiii_Oil_Transport	Oil Production - Offshore Oil Loading	0.00	0.00	0.00	0.00	15.97
		Oil Production - Onshore Oil Loading	6.07	0.00	4.73	0.00	0.00
	1B2aiv_Refining/Storage	Oil Production - Oil terminal storage	0.47	0.00	0.01	0.00	0.00
		Petroleum processes	14.46	0.00	0.00	0.00	0.00
	1B2bi_Gas_Production	Gas Production - Gas terminal storage	0.00	0.00	0.00	0.00	0.00
		Gas Production - Offshore Well Testing	0.00	0.00	0.00	0.00	67.34
		Gas Production - process emissions	84.24	0.00	95.78	16.97	15.71
	1B2bii_Transmission/Distribution	Gas leakage	3615.83	0.06	282.76	230.85	0.00
	1B2ci_Flaring_Oil	Oil Production - gas flaring	153.26	0.00	306.69	0.00	3335.98

NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Energy Supply (continued)	1B2ci_Venting_Oil	Oil Production - gas venting	0.00	0.00	1.60	0.00	239.33
	1B2cii_Flaring_Gas	Gas Production - gas flaring	153.33	0.00	50.14	1.12	215.27
	1B2cii_Venting_Gas	Gas Production - gas venting	25.61	0.00	11.24	0.00	315.42
	2A3_Limestone_&_Dolomite_Use	Power stations - FGD	355.03	0.00	0.00	0.00	0.00
Energy Supply Total			145218.17	3950.45	20744.3 7	16643.2 2	17473.62
Industrial Process	1A2a_Manufacturing_Industry&Constructi on:I&S	Sinter production	627.38	0.00	0.00	612.68	0.00
	2A1_Cement_Production	Cement - decarbonising	3069.25	147.00	282.09	293.68	0.00
	2A2_Lime_Production	Lime production - decarbonising	233.70	0.00	0.00	0.00	0.00
	2A3_Limestone_&_Dolomite_Use	Basic oxygen furnaces	51.70	0.00	0.00	57.72	0.00
		Sinter production	239.08	0.00	0.00	217.24	0.00
	2A7_(Fletton_Bricks)	Brick manufacture - Fletton	101.93	0.00	0.00	0.00	0.00
	2A7_Glass_Production	Glass - general	344.10	26.08	53.00	11.18	0.00
	2B1_Ammonia_Production	Ammonia production - feedstock use of gas	978.43	0.00	0.00	0.00	0.00
	2B2_Nitric_Acid_Production	Nitric acid production	1316.57	0.00	0.00	0.00	0.00
	2B3_Adipic_Acid_Production	Adipic acid production	0.00	0.00	0.00	0.00	0.00
	2B5_Chemical_Industry_Other	Chemical industry - ethylene	2.39	0.00	11.89	0.00	0.00
		Chemical industry - general	58.28	0.00	0.00	0.93	0.00
		Chemical industry - methanol	0.00	0.00	0.00	0.00	0.00
	2C1_Iron&Steel	Electric arc furnaces	13.11	0.00	0.18	8.64	0.00
		Iron and steel - flaring	481.26	0.00	0.00	967.01	0.00
		Ladle arc furnaces	5.12	0.00	0.05	4.06	0.00
	2C3_Aluminium_Production	Primary aluminium production - general	232.36	0.00	39.64	14.44	0.00
		Primary aluminium production - PFC emissions	112.02	0.00	1.14	0.00	0.00
	2C4_Cover_gas_used_in_Al_and_Mg_fou	Magnesium cover gas	133.64	0.00	0.00	10.06	0.00

	ndries						
NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Industrial Process (continued)	2E1_Production_of_Halocarbons_and_Sulphur_Hexafluoride	Halocarbons production - by-product	81.61	0.00	0.00	0.00	0.00
	2E2_Production_of_Halocarbons_and_Sulphur_Hexafluoride	Halocarbons production - fugitive	38.74	0.00	0.00	0.00	0.00
	3_Solvent_and_Other_Product_Use	Solvent use	0.00	0.00	0.00	0.00	0.00
Industrial Process Total			8120.66	173.07	387.99	2197.65	0.00
Land Use Change	5A_Forest Land (Biomass Burning - wildfires)	Forest Land - Biomass burning	43.83	0.00	42.77	11.60	0.00
	5A1_Forest Land Remaining Forest Land	Forest Land remaining Forest Land	-1222.92	-368.15	5740.63	-218.64	0.00
	5A2_Forest Land (N fertilisation)	Direct N2O emission from N fertilisation of forest land	0.28	0.02	0.75	0.04	0.00
	5A2_Land Converted to Forest Land	Land converted to Forest Land	-939.23	-176.61	1883.33	-108.49	0.00
	5B_Cropland (Biomass Burning - controlled)	Cropland - Biomass Burning	4.74	0.00	0.00	0.00	0.00
	5B_Liming	Cropland - Liming	389.85	3.99	83.36	8.29	0.00
	5B1_Cropland Remaining Cropland	Cropland remaining Cropland	2455.78	437.34	2109.38	383.32	0.00
	5B2_Land Converted to Cropland	Land converted to Cropland	2280.76	543.55	2832.51	583.29	0.00
	5B2_N2O emissions from disturbance associated with land-use conversion to cropland	N2O emissions from disturbance associated with land-use conversion to cropland	244.84	27.86	295.32	54.42	0.00
	5C_Grassland (Biomass burning - controlled)	Grassland - Biomass Burning	98.72	7.90	23.06	11.35	0.00
	5C_Liming	Grassland - Liming	233.30	35.61	85.20	65.34	0.00
	5C1_Grassland Remaining Grassland	Grassland remaining Grassland	-1699.69	-757.85	1883.21	-325.41	0.00
	5C2_Land converted to grassland	Land converted to Grassland	-2431.11	-501.81	1127.62	-361.84	0.00
	5D1_Wetlands remaining wetlands	Wetlands remaining Wetland	3.50	165.82	93.35	0.35	0.00

	5D2_Non-CO2 emissions from drainage of soils and wetlands	Non-CO2 emissions from drainage of soils and wetlands	0.00	0.30	0.20	0.00	0.00
	5E_Settlements (Biomass burning - controlled)	Settlements - Biomass Burning	29.06	8.33	39.12	23.15	0.00
	5E1_Settlements remaining settlements	Settlements remaining Settlements	1374.60	200.46	634.60	282.06	0.00
NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocated
Land Use Change (continued)	5E2_Land converted to settlements	Land converted to Settlements	1676.12	596.43	939.88	421.55	0.00
	5G_Other (Harvested wood)	Harvested Wood Products	-900.73	-117.80	2003.91	-871.93	0.00
Land Use Change Total			1641.70	105.39	5459.23	-41.54	0.00
Public	1A4a_Commercial/Institutional	Public sector combustion	6994.11	212.51	874.72	386.89	0.00
Public Total			6994.11	212.51	874.72	386.89	0.00
Residential	1A4b_Residential	Domestic combustion	68462.51	3686.79	7978.14	4749.29	0.00
	1A4bii_Residential:Off-road	House and garden machinery	303.81	9.95	33.24	17.99	0.00
	2B5_Chemical_Industry_Other	Non-aerosol products - household products	1320.32	45.48	132.00	75.99	0.00
	2F4_Aerosols	Aerosols - halocarbons	928.36	31.98	92.81	53.43	0.00
		Metered dose inhalers	1328.19	45.75	132.79	76.45	0.00
	6C_Waste_Incineration	Accidental fires - vehicles	0.79	0.03	0.08	0.05	0.00
Residential Total			72343.98	3819.99	8369.06	4973.20	0.00
Transport	1A3aii_Civil_Aviation_Domestic	Aircraft - domestic cruise	709.85	117.72	326.16	7.97	0.00
		Aircraft - domestic take off and landing	285.59	48.04	98.97	6.14	0.00
	1A3b_Road_Transportation	Road transport - all vehicles LPG use	251.88	9.37	32.13	23.87	0.00
		Road transport - buses and coaches - motorway driving	296.84	8.79	43.10	10.80	0.00
		Road transport - buses and coaches - rural driving	747.67	16.94	183.50	99.82	0.00
		Road transport - buses and coaches - urban driving	2849.87	24.15	332.35	124.99	0.00

		Road transport - cars - cold start	133.88	7.02	11.43	8.40	0.00
		Road transport - cars - motorway driving	10809.50	213.00	764.34	403.32	0.00
		Road transport - cars - rural driving	20719.99	1714.48	2678.83	1878.20	0.00
		Road transport - cars - urban driving	24478.21	830.80	1893.51	1203.57	0.00
		Road transport - HGV articulated - motorway driving	6290.70	47.38	428.13	162.25	0.00
NCFFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocated
Transport (continued)		Road transport - HGV articulated - rural driving	3650.25	198.63	508.66	222.63	0.00
		Road transport - HGV articulated - urban driving	811.20	56.75	83.31	29.88	0.00
		Road transport - HGV rigid - motorway driving	2668.96	22.61	221.81	81.09	0.00
		Road transport - HGV rigid - rural driving	3386.00	320.21	618.25	325.80	0.00
		Road transport - HGV rigid - urban driving	2415.68	103.19	237.39	114.89	0.00
		Road transport - LGVs - cold start	28.27	0.54	2.95	1.89	0.00
		Road transport - LGVs - motorway driving	2974.53	12.82	229.46	113.69	0.00
		Road transport - LGVs - rural driving	5307.00	160.27	769.64	543.31	0.00
		Road transport - LGVs - urban driving	4450.23	47.64	344.03	209.61	0.00
		Road vehicle engines	116.17	4.62	10.66	6.75	0.00
		Road transport - mopeds (<50cc 2st) - urban driving	10.76	0.28	0.38	0.36	0.00
		Road transport - motorcycle (>50cc 2st) - rural driving	0.00	0.00	0.00	0.00	0.00
		Road transport - motorcycle (>50cc 2st) - urban driving	4.63	0.12	0.16	0.15	0.00
		Road transport - motorcycle (>50cc 4st) - motorway driving	58.72	1.58	4.32	2.11	0.00
		Road transport - motorcycle (>50cc 4st) - rural driving	165.18	4.86	20.10	14.79	0.00
		Road transport - motorcycle (>50cc 4st) - urban driving	254.07	6.60	9.01	8.45	0.00
	1A3c_Railways	Rail - coal	36.85	2.77	6.58	4.52	0.00
		Railways - freight	467.32	0.00	62.31	93.46	0.00

		Railways - intercity	760.64	0.00	55.77	11.81	0.00
		Railways - regional	527.28	40.15	94.15	64.67	0.00
	1A3dii_National_Navigation	Inland goods-carrying vessels	6.34	0.22	0.63	0.36	0.00
		Marine engines	52.60	3.51	12.99	9.30	0.00
NCFormat	IPCC	SourceName	England	Northern Ireland	Scotland	Wales	Unallocate d
Transport (continued)		Motorboats / workboats (e.g. canal boats, dredgers, service boats, tourist boats, river boats)	649.31	22.37	64.92	37.37	0.00
		Personal watercraft e.g. jet ski	97.25	3.35	9.72	5.60	0.00
		Sailing boats with auxiliary engines	5.15	0.18	0.52	0.30	0.00
		Shipping - coastal	927.51	61.88	229.09	164.06	0.00
	1A3e_Other_Transportation	Aircraft - support vehicles	375.00	19.87	80.21	4.18	0.00
	1A4a_Commercial/Institutional	Railways - stationary combustion	3.35	0.00	0.00	0.00	0.00
	1A4ciii_Fishing	Fishing vessels	8.83	0.59	2.18	1.56	0.00
	1A5b_Other:Mobile	Shipping - naval	759.56	19.52	73.21	31.57	0.00
		Aircraft - military	1790.00	46.01	172.52	74.40	0.00
Transport Total			100342.62	4198.84	10717.3 7	6107.91	0.00
Waste Manageme nt	6A1_Managed_Waste_Disposal_on_Land	Landfill	11483.24	390.82	2018.90	796.35	0.00
	6B2_Wastewater_Handling	Sewage sludge decomposition	1245.42	40.73	122.62	72.74	0.00
	6C_Waste_Incineration	Incineration	0.00	0.00	0.00	0.00	0.00
		Incineration - chemical waste	168.29	0.00	0.00	1.53	0.00
		Incineration - clinical waste	89.03	3.07	8.90	5.12	0.00
		Incineration - sewage sludge	39.30	1.35	3.93	2.26	0.00
Waste Management Total			13025.27	435.97	2154.35	878.01	0.00
Grand Total			448436.43	20459.5 6	53244.8 9	46638.5 2	17473.62

