

## 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 2011 emissions/removals for England, Wales Scotland, Northern Ireland and un-allocated (emissions from the off-shore industry and its terminals producing oil and gas).

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
Energy Supply	Electricity Production	1A1a Public Electricity&Heat Production	Miscellaneous industrial/commercial combustion
			Power stations
			Public sector combustion
		2A3 Limestone & Dolomite Use	Power stations - FGD
	Gas Production	1B2b Distribution	Gas leakage
		1B2b Gas Exploration	Upstream Gas Production - Offshore Well Testing
		1B2b Gas Production	Upstream Gas Production - Gas terminal storage
			Upstream Gas Production - process emissions
		1B2b Transmission	Gas leakage
	Liquid Fuel Production	1A1b Petroleum Refining	Refineries - combustion
		1B2a Oil Exploration	Upstream Oil Production - Offshore Well Testing
		1B2a Oil Other	Upstream Oil Production - Onshore Oil Loading
		1B2a Oil Production	Upstream Oil Production - process emissions
		1B2a Oil Transport	Upstream Oil Production - Offshore Oil Loading
		1B2a Refining/Storage	Petroleum processes
			Upstream Oil Production - Oil terminal storage
	Offshore Industry	1B2c Flaring Gas	Upstream Gas Production - flaring
		1B2ci Venting Gas	Upstream Gas Production - venting
		1B2ci Venting Oil	Upstream Oil Production - venting
		1B2cii Flaring Oil	Upstream Oil Production - flaring
	Solid Fuel Production	1A1ci Manufacture of Solid Fuels-coke	Coke production
			Solid smokeless fuel production
		1A1cii Other Energy Industries	Collieries - combustion
			Gas production
			Nuclear fuel production
			Town gas manufacture

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
			Upstream Gas Production - fuel combustion
			Upstream oil and gas production - combustion at gas separation plant
			Upstream Oil Production - fuel combustion
		1B1a Post-Mining Activities	Coal storage and transport
		1B1a Surface Mines	Open-cast coal
		1B1a Underground Mines	Deep-mined coal
		1B1b Solid Fuel Transformation	Charcoal production
			Coke production
			Iron and steel - flaring
			Solid smokeless fuel production
		1B1c Closed Coal Mines	Closed Coal Mines
Transport	Aircraft & Airports	1A3aii Civil Aviation Domestic	Aircraft - domestic cruise
			Aircraft - domestic take-off and landing
		1A3e Other Transportation	Aircraft - support vehicles
	Other Transport	1A3c Railways	Rail - coal
			Railways - freight
			Railways - intercity
			Railways - regional
		1A3dii National Navigation	Inland goods-carrying vessels
			Marine engines
			Motorboats / workboats (e.g. canal boats, dredgers, service boats, tourist boats, river boats)
			Personal watercraft e.g. jet ski
			Sailing boats with auxiliary engines
			Shipping - coastal
		1A4a Commercial/Institutional	Railways - stationary combustion
		1A4ciii Fishing	Fishing vessels
		1A5b Other:Mobile	Aircraft - military
			Shipping - naval
	Road Transport	1A3b Road Transportation	Road transport - all vehicles LPG use
			Road transport - buses and coaches - motorway driving
			Road transport - buses and coaches - rural driving
			Road transport - buses and coaches - urban driving
			Road transport - cars - cold start
			Road transport - cars - motorway driving
			Road transport - cars - rural driving

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
			Road transport - cars - urban driving
			Road transport - HGV articulated - motorway driving
			Road transport - HGV articulated - rural driving
			Road transport - HGV articulated - urban driving
			Road transport - HGV rigid - motorway driving
			Road transport - HGV rigid - rural driving
			Road transport - HGV rigid - urban driving
			Road transport - LGVs - cold start
			Road transport - LGVs - motorway driving
			Road transport - LGVs - rural driving
			Road transport - LGVs - urban driving
			Road transport - mopeds (<50cc 2st) - urban driving
			Road transport - motorcycle (>50cc 2st) - rural driving
			Road transport - motorcycle (>50cc 2st) - urban driving
			Road transport - motorcycle (>50cc 4st) - motorway driving
			Road transport - motorcycle (>50cc 4st) - rural driving
			Road transport - motorcycle (>50cc 4st) - urban driving
			Road vehicle engines
Residential	Aerosols and metered dose inhalers and other household products	2B5 Chemical Industry Other	Non-aerosol products - household products
		2F4 Aerosols	Aerosols - halocarbons Metered dose inhalers
	Other	6C Waste Incineration	Accidental fires - vehicles
	Residential combustion	1A4bi Residential	Domestic combustion
		1A4bii Residential:Off-road	House and garden machinery
Business	Industrial Combustion of fuels	1A2b Non-Ferrous Metals	Non-Ferrous Metal (combustion)
		1A2c Chemicals	Ammonia production - combustion
			Chemicals (combustion)
		1A2d Pulp Paper Print	Pulp, Paper and Print (combustion)
		1A2e Food drink tobacco	Food & drink, tobacco (combustion)
		1A2f Manufacturing Industry&Construction:Other	Autogeneration - exported to grid
			Autogenerators
			Cement production - combustion
			Lime production - non decarbonising
			Other industrial combustion
		1A2fii Manufacturing Industry&Construction:Off-road	Industrial engines
			Industrial off-road mobile machinery

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
		1A4a Commercial/Institutional	Miscellaneous industrial/commercial combustion
		2B5 Carbon from non-energy use (NEU) of products	Other industrial combustion
	Iron and steel - combustion and electricity	1A2a Manufacturing Industry&Construction:I&S	Blast furnaces
			Iron and steel - combustion plant
	Refrigeration and air conditioning	2F1 Refrigeration and Air Conditioning Equipment	Commercial Refrigeration
			Domestic Refrigeration
			Industrial Refrigeration
			Mobile Air Conditioning
			Refrigerated Transport
			Stationary Air Conditioning
	Use of fluorinated Gases	2F2 Foam Blowing	Foams
		2F3 Fire Extinguishers	Firefighting
		2F5 Solvents	Other PFC use
			Precision cleaning - HFC
		2F9 Other (one component foams)	One Component Foams
		2F9 Other (semiconductors electrical sporting goods)	Electrical insulation
			Electronics - PFC
			Electronics - SF6
			Sporting goods
		1A4a Commercial/Institutional	Public sector combustion
Public	Public	2A1 Cement Production	Cement - decarbonising
Industrial Process	Cement production	2A7 Glass Production	Glass - general
	Chemical Production	2B1 Ammonia Production	Ammonia production - feedstock use of gas
		2B2 Nitric Acid Production	Nitric acid production
		2B3 Adipic Acid Production	Adipic acid production
		2C3 Aluminium Production	Primary aluminium production - general
			Primary aluminium production - PFC emissions
		1A2a Manufacturing Industry&Construction:I&S	Sinter production
	Iron & Steel	2C1 Iron&Steel	Electric arc furnaces
			Iron and steel - flaring
			Ladle arc furnaces
		2A2 Lime Production	Lime production - decarbonising
	Other Processes	2A3 Limestone & Dolomite Use	Basic oxygen furnaces
			Sinter production
		2A7 (Fletton Bricks)	Brick manufacture - Fletton
		2A7 Glass Production	Glass - general
		2B5 Chemical Industry Other	Chemical industry - ethylene

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
			Chemical industry - general
			Chemical industry - methanol
		2C4 Cover gas used in Al and Mg foundries	Magnesium cover gas
		2E1 Production of Halocarbons and Sulphur Hexafluoride	Halocarbons production - by-product
		2E2 Production of Halocarbons and Sulphur Hexafluoride	Halocarbons production - fugitive
		3 Solvent and Other Product Use	Solvent use
		2B5 Chemical Industry Other	Agriculture - agrochemicals use
Agriculture	Crop Growing and Fertilizer Application	4B13 Solid Storage and Drylot	Agriculture livestock - manure solid storage and dry lot
		4B14 Other	Agriculture livestock - manure other
		4D Agricultural Soils	Agricultural soils
		4F1 Field Burning of Agricultural Residues	Field burning
	Field burning of agricultural wastes	4F5 Field Burning of Agricultural Residues	Field burning
		4A10 Enteric Fermentation Deer	Agriculture livestock - deer enteric
	Livestock	4A1a Enteric Fermentation Dairy	Agriculture livestock - dairy cattle enteric
		4A1b Enteric Fermentation Non-Dairy	Agriculture livestock - other cattle enteric
		4A3 Enteric Fermentation Sheep	Agriculture livestock - sheep enteric
		4A4 Enteric Fermentation Goats	Agriculture livestock - goats enteric
		4A6 Enteric Fermentation Horses	Agriculture livestock - horses enteric
		4A8 Enteric Fermentation Swine	Agriculture livestock - pigs enteric
		4B10 Manure Management Deer	Agriculture livestock - deer wastes
		4B12 Liquid Systems	Agriculture livestock - manure liquid systems
		4B1a Manure Management Dairy	Agriculture livestock - dairy cattle wastes
		4B1b Manure Management Non-Dairy	Agriculture livestock - other cattle wastes
		4B3 Manure Management Sheep	Agriculture livestock - sheep goats and deer wastes
		4B4 Manure Management Goats	Agriculture livestock - goats wastes
		4B6 Manure Management Horses	Agriculture livestock - horses wastes
		4B8 Manure Management Swine	Agriculture livestock - pigs wastes
		4B9 Manure Management Poultry	Agriculture livestock - broilers wastes
			Agriculture livestock - laying hens wastes
			Agriculture livestock - other poultry wastes
		1A4ci Agriculture/Forestry/Fishing:Stationary	Agriculture - stationary combustion
	Stationary and mobile combustion		Miscellaneous industrial/commercial combustion
		1A4cii Agriculture/Forestry/Fishing:Off-road	Agricultural engines
			Agriculture - mobile machinery
		5E1 Settlements remaining settlements	Settlements remaining Settlements
LULUCF	Creation and Maintenance of Settlements	5E2 Land converted to settlements	Land converted to Settlements
		5A Forest Land (Drainage of soils)	Forest Land - Drainage of Organic Soils

NC Format	Categories used in Report Graphs	IPCC Sectors	Source Name
	Crop Growing and Fertilizer Application	5A2 Land Converted to Forest Land	Land converted to Forest Land
	Land Converted to Forest, Grass, Crop and/or Wetlands	5B2 Land Converted to Cropland	Land converted to Cropland
		5B2 N2O emissions from disturbance associated with land-use conversion to cropland	N2O emissions from disturbance associated with land-use conversion to cropland
		5C2 Land converted to grassland	Land converted to Grassland
		5D2 Land converted to wetlands	Land converted to Wetland
		5D2 Non-CO2 emissions from drainage of soils and wetlands	Non-CO2 emissions from drainage of soils and wetlands
		5A1 Forest Land Remaining Forest Land	Forest Land remaining Forest Land
	Land Maintained as Crops, Grass and Forest	5A2 Forest Land (N fertilisation)	Direct N2O emission from N fertilisation of forest land
		5B Liming	Cropland - Liming
		5B1 Cropland Remaining Cropland	Cropland remaining Cropland
		5C Liming	Grassland - Liming
		5C1 Grassland Remaining Grassland	Grassland remaining Grassland
		5D1 Wetlands remaining wetlands	Wetlands remaining Wetland
		5A Forest Land (Biomass Burning - wildfires)	Forest Land - Biomass Burning\Wildfires
	Wood Products & Harvesting	5B Cropland (Biomass Burning - controlled)	Cropland - Biomass Burning\Controlled Burning
		5B Cropland (Biomass Burning - wildfires)	Cropland - Biomass Burning\Wildfires
		5C Grassland (Biomass burning - controlled)	Grassland - Biomass Burning\Controlled Burning
		5C Grassland (Biomass Burning - wildfires)	Grassland - Biomass Burning\Wildfires
		5E Settlements (Biomass burning - controlled)	Settlements - Biomass Burning\Controlled Burning
		5G Other (Harvested wood)	Harvested Wood Products
		6A1 Managed Waste Disposal on Land	Landfill
Waste Management	Landfill	6C Waste Incineration	Incineration
	Waste Incineration		Incineration - chemical waste
			Incineration - clinical waste
			Incineration - sewage sludge
		6B1 Industrial Wastewater Handling	Industrial Waste Water Treatment
	Waste-water handling	6B2 Wastewater Handling	Sewage sludge decomposition
International Aviation and Shipping	Aircraft & Airports	International Aviation	Aircraft - international cruise
			Aircraft - international take off and landing
	International fuel/energy use	International Aviation	Aircraft - international cruise
			Aircraft - international take off and landing
		International Shipping	Shipping - international