

## CORRESPONDENCE BETWEEN SNAP97 AND IPCC 1996 SOURCE CATEGORIES

This document provides the corresponding allocation of all SNAP 97 items in IPCC 1996 source categories. It is to be noticed that each SNAP item corresponds to only one IPCC source category as defined in standard data tables.

All codes used in this document refer to :

- CORINAIR / SNAP 97 version 1.0 dated 20/03/1998
- IPCC / Greenhouse Gas Inventory / Reporting Instructions / Revised 1996 Guidelines for National Greenhouse Gas Inventories (Volume 1)

CORINAIR / SNAP classification	IPCC classification
<b>01</b> <span style="border: 1px solid black; padding: 2px;"><b>COMBUSTION IN ENERGY AND TRANSFORMATION INDUSTRIES</b></span>	
01 01 <b>Public power</b> Items 01.01.01 to 01.01.05	1A1a Electricity and heat production
01 02 <b>District heating plants</b> Items 01.02.01 to 01.02.05	1A1a Electricity and heat production
01 03 <b>Petroleum refining plants</b> Items 01.03.01 to 01.03.05	1A1b Petroleum refining
01 04 <b>Solid fuel transformation plants</b> Items 01.04.01 to 01.04.07	1A1c Manufacture of Solid Fuels and Other Energy Industries
01 05 <b>Coal mining, oil / gas extraction, pipeline compressors</b> Items 01.05.01 to 01.05.05	1A1c Manufacture of Solid Fuels and Other Energy Industries
01 05 06    Pipeline compressors	1A3e Transport-Other transportation
<b>02</b> <span style="border: 1px solid black; padding: 2px;"><b>NON-INDUSTRIAL COMBUSTION PLANTS</b></span>	
02 01 <b>Commercial and institutional plants</b> Items 02.01.01 to 02.01.06	1A5a (*) 1A4a Other Sectors-Commercial/Institutional
02 02 <b>Residential plants</b> Items 02.02.01 to 02.02.05	1A4b Other Sectors-Residential
02 03 <b>Plants in agriculture, forestry and aquaculture</b> Items 02.03.01 to 02.03.05	1A4c Other Sectors-Agriculture/Forestry/Fishing
<b>03</b> <span style="border: 1px solid black; padding: 2px;"><b>COMBUSTION IN MANUFACTURING INDUSTRY</b></span>	
03 01 <b>Combustion in boilers, gas turbines and stationary engines</b> Items 03.01.01 to 03.01.06	1A2 Industry When relevant economic sector split data are available in CORINAIR, data can be allocated to sub-categories a to f.
03 02 <b>Process furnaces without contact</b>	
03 02 03    Blast furnace cowpers	1A2a Industry-Iron and steel
03 02 04    Plaster furnaces	1A2f Industry-Other
03 02 05    Other furnaces	1A2f Industry-Other by default

(\*) stationary military sources are not differentiated in SNAP 02 01. This item cannot be allocated twice; military emissions representing generally minor contributions within this category, figures are allocated to IPCC 1A4a only to avoid double counting.

CORINAIR / SNAP classification	IPCC classification
03 03 <b>Processes with contact</b> Items 03.03.01 to 03.03.03 Items 03.03.04 to 03.03.10 and 03.03.22 to 03.03.24 SF6 emission for 03.03.10 Items 03.03.11 to 03.03.20 and 03.03.25 and 03.03.26 03 03 21 Paper-mill industry (drying processes)	1A2a Industry-Iron and steel 1A2b Industry-Non-ferrous metals 2C4 Industrial Processes-Metal Production-SF6 Used 1A2f Industry-Other 1A2d Industry-Pulp, Paper and Print
<b>04</b> <b>PRODUCTION PROCESSES</b>	
04 01 <b>Processes in petroleum industries</b> Items 04.01.01 to 04.01.05	1B2a Fugitive emissions from fuels-Oil and natural gas/Oil
04 02 <b>Processes in iron and steel industries and collieries</b> Items 04.02.01 and 04.02.04 Items 04.02.02 , 04.02.03 and 04.02.05 to 04.02.10	1B1b Fugitive emissions from fuels-Solid fuels/Transformation 2C1 Industrial Processes-Metal Production-Iron and steel
04 03 <b>Processes in non-ferrous metal industries</b> 04 03 01 Aluminium production (electrolysis) 04 03 02 Ferro alloys SF6 emission from 03.03.10, 04.03.01 and 04.03.04 Items 04.03.03 to 04.03.09	2C3 Industrial Processes-Metal Production-Aluminium 2C2 Industrial Processes-Metal Production-Ferroalloys 2C4 Industrial Processes-Metal Production-SF6 Used 2C5 Industrial Processes-Metal Production-Other
04 04 <b>Processes in inorganic chemical industries</b> 04 04 01 Sulphuric Acid 04 04 02 Nitric acid 04 04 03 Ammonia Items 04.04.04 to 04.04.11 and 04.04.13 to 04.04.16 04 04 12 Calcium Carbide production	2B5 Industrial Processes-Chemical Industry/Other 2B2 Industrial Processes-Chemical Industry-Nitric Acid 2B1 Industrial Processes-Chemical Industry-Ammonia 2B5 Industrial Processes-Chemical Industry/Other 2B4 Industrial Processes-Chemical Industry-Carbide
04 05 <b>Processes in organic chemical industries (bulk production)</b> Items 04.05.01 to 04.05.20 and 04.05.22 to 04.05.26 04 05 21 Adipic acid 04 05 27 Other	2B5 Industrial Processes-Chemical Industry-Other 2B3 Industrial Processes-Chemical Industry-Adipic Acid 2B5 Industrial Processes-Chemical Industry-Other
04 06 <b>Proc. in wood, paper pulp, food, drink and other industries</b> Items 04.06.01 to 04.06.04 Items 04.06.05 to 04.06.08 04 06 10 Roof covering with Asphalt Materials 04 06 11 Road paving with Asphalt 04 06 12 Cement (decarbonizing) 04 06 14 Lime (decarbonizing) Items 04.06.13 and 04.06.15 to 04.06.17 and 04.06.20 04 06 18 Limestone and Dolomite use 04 06 19 Soda Ash production and use	2D1 Industrial processes-Other Production-Pulp and Paper 2D2 Industrial processes-Other Production-Food and Drink 2A5 Industrial processes-Mineral Products-Asphalt Roofing 2A6 Industrial proc.-Mineral Products-Road Paving with Asphalt 2A1 Industrial processes-Mineral Products-Cement 2A2 Industrial processes-Mineral products/Lime 2A7 Industrial processes-Mineral Products-Other 2A3 Industrial processes-Limestone and Dolomite use 2A4 Industrial processes-Soda Ash production and use
04 08 <b>Production of halocarbons and sulphur hexafluoride</b> 04 08 01 Halogenated hydrocarbons production - By-products 04 08 02 Halogenated hydrocarbons production - Fugitive 04 08 03 Halogenated hydrocarbons production - Other 04 08 04 Sulphur hexafluoride production - By-products 04 08 05 Sulphur hexafluoride production - Fugitive 04 08 06 Sulphur hexafluoride production - Other	2E1 Indust. Processes.-Production of HFC and SF6-By-products 2E2 Industrial Processes.-Production of HFC and SF6-Fugitive 2E3 Industrial Processes.-Production of HFC and SF6-Other 2E1 Indust. Processes.-Production of HFC and SF6-By-products 2E2 Industrial Processes.-Production of HFC and SF6-Fugitive 2E3 Industrial Processes.-Production of HFC and SF6-Other

CORINAIR / SNAP classification		IPCC classification
<b>05</b>	<b>EXTRACTION AND DISTRIBUTION OF FOSSIL FUELS AND GEOTHERMAL ENERGY</b>	
05 01	<b>Extraction and 1st treatment of solid fossil fuels</b> Items 05.01.01 to 05.01.03	1B1a Fugitive emissions from fuels-Solid fuels/Coal mining
05 02	<b>Extraction, 1st treatment and loading of liquid fossil fuels</b> Items 05.02.01 to 05.02.02	1B2a Fugitive emissions from fuels-Oil and natural gas/Oil
05 03	<b>Extraction, 1st treat. and loading of gaseous fossil fuels</b> Items 05.03.01 to 05.03.03	1B2b Fugitive emissions from fuels-Oil and natural gas/Natural gas
05 04	<b>Liquid fuel distribution (except gasoline distribution)</b> Items 05.04.01 to 05.04.02	1B2a Fugitive emissions from fuels-Oil and natural gas/Oil
05 05	<b>Gasoline distribution</b> Items 05.05.01 to 05.05.03	1B2a Fugitive emissions from fuels-Oil and natural gas/Oil
05 06	<b>Gas distribution networks</b> Items 05.06.01 to 05.06.02	1B2b Fugitive emissions from fuels-Oil and natural gas/Natural gas
05 07	<b>Geothermal energy extraction</b>	7 Other
<b>06</b>	<b>SOLVENT AND OTHER PRODUCT USE</b>	
06 01	<b>Paint application</b> Items 06.01.01 to 06.01.09	3A Solvent and other product use-Paint application
06 02	<b>Degreasing, dry cleaning and electronics</b> Items 06.02.01 to 06.02.04 except SF6, PFC and HFC PFC and HFC emissions SF6 emissions	3B Solvent and other product use-Degreasing and dry cleaning 2F5 Indust. proc.-Consumption of halocarbons and SF6-Solvents 2F6 Indust. proc.-Consumption of halocarbons and SF6-Other
06 03	<b>Chemical products manufacturing or processing</b> Items 06.03.01 to 06.03.14 PFC and HFC emissions	3C Solvent and other product use-Chemical products 2F5 Indust. proc.-Consumption of halocarbons and SF6-Solvents
06 04	<b>Other use of solvents and related activities</b> Items 06.04.01 to 06.04.12 SF6, PFC and HFC emissions for 06.04.01 and 06.04.02	3D Solvent and other product use-Other 2F6 Indust. proc.-Consumption of halocarbons and SF6-Other
06 05	<b>Use of HFC, N2O, NH3, PFC and SF6</b>	
06 05 01	Anaesthesia	3D Solvent and other product use-Other
06 05 02	Refrigeration and air conditioning equipments using halocarbons	2F1 Refrigeration and air conditioning equipments
06 05 03	Refrigeration and air conditioning equipments using other products than halocarbons	
06 05 04	Foam Blowing (except 060304)	2G Industrial processes-Other 2F2 Industrial processes-Foam Blowing
06 05 05	Fire extinguishers	2F3 Industrial processes-Fire extinguishers
06 05 06	Aerosol cans	2F4 Industrial processes-Aerosols
06 05 07	Electrical equipment	2F6 Industrial proc.-Consumption of halocarbons and SF6-Other
06 05 08	Other	2F6 Industrial proc.-Consumption of halocarbons and SF6-Other 3D Solvent and other product use-Other (except halocarbons and sulphur hexafluoride)

CORINAIR / SNAP classification		IPCC classification
<b>07</b>	<b>ROAD TRANSPORT</b>	
07 01	<b>Passenger cars</b> Items 07.01.01 to 07.01.03	1A3b Transport-Road (1-Cars)
07 02	<b>Light duty vehicles &lt; 3.5 t</b> Items 07.02.01 to 07.02.03	1A3b Transport-Road (2-Light duty trucks)
07 03	<b>Heavy duty vehicles &gt; 3.5 t and buses</b> Items 07.03.01 to 07.03.03	1A3b Transport-Road (3-Heavy duty trucks and buses)
07 04	<b>Mopeds and Motorcycles &lt; 50 cm3</b>	1A3b Transport-Road (4-Motorcycles)
07 05	<b>Motorcycles &gt; 50 cm3</b> Items 07.05.01 to 07.05.03	1A3b Transport-Road (4-Motorcycles)
07 06	<b>Gasoline evaporation from vehicles</b>	1A3b Transport-Road
07 07	<b>Automobile tyre and brake wear</b>	- Not allocated
<b>08</b>	<b>OTHER MOBILE SOURCES AND MACHINERY</b>	
08 01	<b>Military</b>	1A5 Other
08 02	<b>Railways</b> Items 08.02.01 to 08.02.03	1A3c Transport-Railways
08 03	<b>Inland waterways</b> Items 08.03.01 to 08.03.04	1A3d Transport-Navigation
08 04	<b>Maritime activities</b>	
08 04 02	National sea traffic within EMEP area	1A3d Transport-Navigation / 2-National navigation
08 04 03	National fishing	1A4c Small combustion-Agriculture/Forestry/Fishing
08 04 04	International sea traffic (international bunkers)	1A3d Transport-Navigation / 1-International marine(bunkers)
08 05	<b>Air traffic</b>	
08 05 01	Domestic airport traffic (LTO cycles - <1000 m)	1A3a Transport-Civil aviation (2-Domestic)
08 05 02	International airport traffic (LTO cycles - <1000 m)	1A3a Transport-Civil aviation (1-International)
08 05 03	National cruise traffic (>1000 m)	1A3a Transport-Civil aviation (2-Domestic)
08 05 04	International cruise traffic (>1000 m)	1A3a Transport-Civil aviation (1-International)
08 06	<b>Agriculture</b>	1A4c Small combustion-Agriculture/Forestry/Fishing
08 07	<b>Forestry</b>	1A4c Small combustion-Agriculture/Forestry/Fishing
08 08	<b>Industry</b>	1A2f Industry-Other by default
08 09	<b>Household and gardening</b>	1A4b Small combustion-Residential
08 10	<b>Other off-road</b>	1A3e Transport-Other

CORINAIR / SNAP classification	IPCC classification
<b>09</b> <span style="border: 1px solid black; padding: 2px;"><b>WASTE TREATMENT AND DISPOSAL</b></span>	
09 02 <b>Waste incineration</b> Items 09.02.01 and 09.02.02 Items 09.02.03 and 09.02.06 Items 09.02.04 to 09.02.05 and 09.02.07 to 09.02.08	6C Waste-Incineration 1B2c Fugitive emissions from fuels-Oil and natural gas/Flaring 6C Waste-Incineration
09 04 <b>Solid Waste Disposal on Land</b> 09 04 01 Managed Waste Disposal on Land 09 04 02 Unmanaged Waste Disposal Sites 09 04 03 Other	6A1 Waste-Solid waste disposal on land-Managed Disposal 6A2 Waste-Solid waste disposal on land-Unmanaged Sites 6A3 Waste-Solid waste disposal on land-Other
09 07 <b>Open burning of agricultural wastes (except 10.03)</b>	6C Waste-Incineration
09 09 <b>Cremation</b> Items 09.09.01 to 09.09.02	6C Waste-Incineration
09 10 <b>Other waste treatment</b> 09 10 01 Waste water treatment in industry 09 10 02 Waste water treatment in residential and commercial sect. 09 10 03 Sludge spreading 09 10 05 Compost production 09 10 06 Biogas production 09 10 07 Latrines 09 10 08 Other production of fuel (refuse derived fuel,...)	6B1 Waste-Wastewater treatment/Industrial 6B2 Waste-Wastewater treatment/Domestic and commercial 6D Waste-Other 6D Waste-Other 6D Waste-Other 6B2 Waste-Wastewater treatment 6C Waste-Incineration
<b>10</b> <span style="border: 1px solid black; padding: 2px;"><b>AGRICULTURE</b></span>	
10 01 <b>Cultures with fertilizers</b> Items 10.01.01 to 10.01.02 and 10.01.04 to 10.01.06	4D Agriculture-Agricultural soils
10 01 03 Rice field	4C Agriculture-Rice cultivation
10 02 <b>Cultures without fertilizers</b> Items 10.02.01 to 10.02.02 and 10.02.04 to 10.02.06	4D Agriculture-Agricultural soils
10 02 03 Rice field	4C Agriculture-Rice cultivation
10 03 <b>On-field burning of stubble, straw,...</b>	Agriculture-Field burning of agricultural wastes
10 03 01 Cereals	4F1 Agriculture-Field burning of agricultural wastes-Cereals
10 03 02 Pulse	4F2 Agriculture-Field burning of agricultural wastes-Pulse
10 03 03 Tuber and Root	4F3 Agriculture-Field burning of agric. wastes-Tuber and Root
10 03 04 Sugar Cane	4F4 Agriculture-Field burning of agric. wastes-Sugar Cane
10 03 05 Other	4F5 Agriculture-Field burning of agricultural wastes-Other
10 04 <b>Enteric fermentation</b>	
10 04 01 Dairy cows	4A1a Agriculture-Enteric fermentation/Cattle/Dairy
10 04 02 Other cattle	4A1b Agriculture-Enteric fermentation/Cattle/Non-dairy
10 04 03 Ovines Items 10.04.04 and 10.04.12	4A3 Agriculture-Enteric fermentation/Sheep
10 04 05 Horses	4A8 Agriculture-Enteric fermentation/Swine
10 04 06 Mules and asses	4A6 Agriculture-Enteric fermentation/Horses
10 04 07 Goats Items 10.04.08 to 10.04.10 Items 10.04.11 and 10.04.15	4A7 Agriculture-Enteric fermentation/Mules and asses 4A4 Agriculture-Enteric fermentation/Goats 4A9 Agriculture-Enteric fermentation/Poultry
10 04 13 Camels	4A10 Agriculture-Enteric fermentation/Other
10 04 14 Buffalos	4A5 Agriculture-Enteric fermentation/Camels and llamas 4A2 Agriculture-Enteric fermentation/Buffalos

<b>CORINAIR / SNAP classification</b>	<b>IPCC classification</b>
10 05 <b>Manure management regarding Organic compounds</b>	
10 05 01      Dairy cows	4B1a Agriculture-Manure management/Cattle/Dairy
10 05 02      Other cattle	4B1b Agriculture-Manure management/Cattle/Non-dairy
Items 10.05.03 and 10.05.04	4B8 Agriculture-Manure management/Swine
10 05 05      Sheep	4B3 Agriculture-Manure management/Sheep
10 05 06      Horses	4B6 Agriculture-Manure management/Horses
Items 10.05.07 to 10.05.09	4B9 Agriculture-Manure management/Poultry
Items 10.05.10 and 10.05.15	4B13 Agriculture-Manure management/Other
10 05 11      Goats	4B4 Agriculture-Manure management/Goats
10 05 12      Mules and asses	4B7 Agriculture-Manure management/Mules and asses
10 05 13      Camels	4B5 Agriculture-Enteric fermentation/Camels and llamas
10 05 14      Buffalos	4B2 Agriculture-Enteric fermentation/Buffalos
10 06 <b>Use of pesticides and Limestone</b>	
Items 10.06.01 to 10.06.04 (CO2 from liming only)	5D CO2 Emissions and removals from soil
10 09 <b>Manure management regarding Nitrogen compounds</b>	
10 09 01      Anaerobic	4B10 Agriculture-Manure management-Anaerobic
10 09 02      Liquid Systems	4B11 Agriculture-Manure management-Liquid Systems
10 09 03      Solid Storage an dry lot	4B12 Agriculture-Manure management-Solid Storage
10 09 04      Other	4B13 Agriculture-Manure management-Other
<b>11</b> <b>OTHER SOURCES AND SINKS</b>	
11 01 <b>Non-managed broadleaf forests</b>	- Not allocated
11 02 <b>Non-managed coniferous forests</b>	- Not allocated
11 03 <b>Forest and other vegetation fires</b>	- Not allocated
11 04 <b>Natural grassland and other vegetation</b>	- Not allocated
11 05 <b>Wetlands (marshes - swamps)</b>	4D N2O from Leakage of N into Waters
11 06 <b>Waters</b>	4D N2O from Leakage of N into Waters
11 07 <b>Animals</b>	- Not allocated
11 08 <b>Volcanoes</b>	- Not allocated
11 09 <b>Gas seeps</b>	- Not allocated
11 10 <b>Lightning</b>	- Not allocated

<b>CORINAIR / SNAP classification</b>		<b>IPCC classification</b>
11 11	<b>Managed broadleaf forests</b> Items 11.11.04 to 11.11.11 and 11.11.15 to 11.11.17	5E Land Use Change and Forestry-Other
11 12	<b>Managed coniferous forests</b> Items 11.12.04 and 11.12.12 and 11.12.15 to 11.12.16	5E Land Use Change and Forestry-Other
11 21	<b>Changes in forest and other woody biomass stock</b>	
11 21 01	Tropical forests	5A1 Changes in forest and other woody biomass stocks/Tropical
11 21 02	Temperate forests	5A2 Changes in forest and other woody biomass stocks/Temperate
11 21 03	Boreal forests	5A3 Changes in forest and other woody biomass stocks/Boreal
11 21 04	Grassland/tundra	5A4 Changes in forest and other woody biomass stocks/Grassland
11 21 05	Other	5A5 Changes in forest and other woody biomass stocks/Other
11 22	<b>Forest and grassland conversion</b>	
11 22 01	Tropical forests	5B1 Forest and grassland conversion/Tropical
11 22 02	Temperate forests	5B2 Forest and grassland conversion/Temperate
11 22 03	Boreal forests	5B3 Forest and grassland conversion/Boreal
11 22 04	Grassland	5B4 Forest and grassland conversion/Grassland
11 22 05	Other	5B5 Forest and grassland conversion/Other
11 23	<b>Abandonment of Managed Land</b>	
11 23 01	Tropical forests	5C1 Abandonment of managed lands/Tropical
11 23 02	Temperate forests	5C2 Abandonment of managed lands/Temperate
11 23 03	Boreal forests	5C3 Abandonment of managed lands/Boreal
11 23 04	Grassland	5C4 Abandonment of managed lands/Grassland
11 23 05	Other	5C5 Abandonment of managed lands/Other
11 24	<b>CO2 Emissions and removals from soil (except 10.06)</b>	5D CO2 Emissions and removals from soil
11 25	<b>Other</b>	5E Other