

### CORRESPONDENCE BETWEEN SNAP 94 AND IPCC SOURCE CATEGORIES

This document provides the corresponding allocation of all SNAP 94 items in IPCC source categories. It is to be noticed that each SNAP item corresponds to only one IPCC source category as defined in standard data tables except in the case of autoproduction of electricity or heat for which the correspondence is provided within the NAD module (cf SNAP 94 general comment A).

All codes used in this document refer to :

- CORINAIR / SNAP 94 version 1.1 dated 14/06/96
- IPCC / Guidelines for National Greenhouse Gas Inventories / Reporting Instructions (Volume 1) dated 1995 and recommendations from the IPCC Phase II expert group on combustion.

Users are invited to check whether CORINAIR or IPCC categories are modified.

<b>CORINAIR / SNAP classification</b>	<b>IPCC classification</b>
<b>01</b>	
<b>COMBUSTION IN ENERGY AND TRANSFORMATION INDUSTRIES</b>	
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 1A1a Electricity and heat production (*)
01 04 <b>Solid fuel transformation plants</b> Items 01.04.01 to 01.04.07	1A1c Solid fuel transformation and other energy industries 1A1a Electricity and heat production (*)
01 05 <b>Coal mining, oil / gas extraction, pipeline compressors</b> Items 01.05.01 to 01.05.05	1A1c Solid fuel transformation and other energy industries 1A1a Electricity and heat production (*)
01 05 06    Pipeline compressors	1A3e Transport-Other transportation
<b>02</b>	
<b>NON-INDUSTRIAL COMBUSTION PLANTS</b>	
02 01 <b>Commercial and institutional plants</b> Items 02.01.01 to 02.01.06	1A4a Small combustion-Commercial/Institutional 1A1a Electricity and heat production (*)
02 02 <b>Residential plants</b> Items 02.02.01 to 02.02.05	1A4b Small combustion-Residential
02 03 <b>Plants in agriculture, forestry and aquaculture</b> Items 02.03.01 to 02.03.05	1A4c Small combustion-Agriculture/Forestry/Fishing 1A1a Electricity and heat production (*)
<b>03</b>	
<b>COMBUSTION IN MANUFACTURING INDUSTRY</b>	
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. 1A1a Electricity and heat production (*)
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

(\*) Autoproduction of energy in this sector must be reported in IPCC source category 1A1. This allocation is performed within CORINAIR considering relevant data for autoproduction of energy at national level in the CORINAIR/NAD module. That will be obsolete after adoption of proposal from IPCC Phase II expert group on combustion.

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 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 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 2A Industrial processes-Iron and steel
04 03 <b>Processes in non-ferrous metal industries</b> 04 03 01 Aluminium production (electrolysis) Ferro alloys and galvanizing (items 04.03.02 and 04.03.07) Items 04.03.03 to 04.03.06 and 04.03.08 to 04.03.09	2B1 Industrial processes-Non ferrous metals/Aluminium 2A Industrial processes-Iron and steel 2B2 Industrial processes-Non ferrous metals/Other
04 04 <b>Processes in inorganic chemical industries</b> Items 04.04.01 , 04.04.03 and 04.04.09 to 04.04.12 Items 04.04.15 and 04.04.16 04 04 02 Nitric acid Items 04.04.04 to 04.04.08 and 04.04.14	2C3 Industrial processes-Inorganic chemicals/Other 2C3 Industrial processes-Inorganic chemicals/Other 2C1 Industrial processes-Inorganic chemicals/Nitric acid 2C2 Industrial processes-Inorganic chemicals/Fertiliser
04 05 <b>Processes in organic chemical industries (bulk production)</b> Items 04.05.01 to 04.05.20 and 04.05.22 to 04.05.27 04 05 21 Adipic acid	2D2 Industrial processes-Organic chemicals/Other 2D1 Industrial processes-Organic chemicals/Adipic acid
04 06 <b>Proc. in wood, paper pulp, food, drink and other industries</b> Items 04.06.01 to 04.06.11 and 04.06.15 and 04.06.17 Items 04.06.13 and 04.06.16 04 06 12 Cement (decarbonizing) 04 06 14 Lime (decarbonizing)	2 F Industrial processes-Other 2E3 Industrial processes-Non metallic mineral products/Other 2E1 Industrial processes-Non metallic mineral products/Cement 2E2 Industrial processes-Non metallic mineral products/Lime
04 07 <b>Cooling plants</b>	2 F Industrial processes-Other
<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

CORINAIR / SNAP classification		IPCC classification
<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	3B Solvent and other product use-Degreasing and dry cleaning
06 03	<b>Chemical products manufacturing or processing</b> Items 06.03.01 to 06.03.14	3C Solvent and other product use-Chemical products
06 04	<b>Other use of solvents and related activities</b> Items 06.04.01 to 06.04.12	3D Solvent and other product use-Other
06 05	<b>Use of N2O</b> Items 06.05.01 to 06.05.02	3D Solvent and other product use-Other
<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 cm<sup>3</sup></b>	1A3b Transport-Road (4-Motorcycles)
07 05	<b>Motorcycles &gt; 50 cm<sup>3</sup></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>	1A3b Transport-Road
<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-Internal 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)

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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
<b>09</b>	<b>WASTE TREATMENT AND DISPOSAL</b>	
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 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	6B1 Waste-Wastewater treatment/Industrial
09 10 02	Waste water treatment in residential and commercial sect.	6B2 Waste-Wastewater treatment/Domestic and commercial
09 10 03	Sludge spreading	6D Waste-Other
09 10 04	Land filling	6A1 Waste-Solid waste disposal on land/Landfills
09 10 05	Compost production from waste	6D Waste-Other
09 10 06	Biogas production	6D Waste-Other
09 10 07	Latrines	6B2 Waste-Wastewater treatment
09 10 08	Refuse Derived Fuel production	6C Waste-Incineration
<b>10</b>	<b>AGRICULTURE AND FORESTRY, LAND USE AND WOOD STOCK CHANGE</b>	
10 01	<b>Cultures with fertilizers (except animal manure)</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>	4 F Agriculture-Field burning of agricultural residues

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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	4A3 Agriculture-Enteric fermentation/Sheep
	Items 10.04.04 and 10.04.12	4A8 Agriculture-Enteric fermentation/Swine
10 04 05	Horses	4A6 Agriculture-Enteric fermentation/Horses
10 04 06	Mules and asses	4A7 Agriculture-Enteric fermentation/Mules and asses
10 04 07	Goats	4A4 Agriculture-Enteric fermentation/Goats
	Items 10.04.08 to 10.04.10	4A9 Agriculture-Enteric fermentation/Poultry
	Items 10.04.11 and 10.04.15	4A10 Agriculture-Enteric fermentation/Other
10 04 13	Camels	4A5 Agriculture-Enteric fermentation/Camels and llamas
10 04 14	Buffalos	4A2 Agriculture-Enteric fermentation/Buffalos
10 05	<b>Manure management</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	4B10 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</b>	4G Agriculture-Other
10 07	<b>Managed deciduous forests</b>	
	Items 10.07.01 to 10.07.03	5D Land Use Change and Forestry-Other
10 08	<b>Managed coniferous forests</b>	5D Land Use Change and Forestry-Other
10 11	<b>LUWC-Wood biomass stock change /annual growth</b>	
	Items 10.11.01 to 10.11.03	5A1 Changes in forest and other woody biomass stocks/Tropical
	Items 10.11.04 to 10.11.06	5A2 Changes in forest and other woody biomass stocks/Temperat
10 11 07	Boreal forests	5A3 Changes in forest and other woody biomass stocks/Boreal
10 11 08	Other ecosystem types	5A5 Changes in forest and other woody biomass stocks/Grassland
10 11 09	Non-forest trees	5A5 Changes in forest and other woody biomass stocks/Other
10 12	<b>LUWC-Wood Biomass stock change /annual harvest</b>	
	Items 10.12.01 to 10.12.03	5A Changes in forest and other woody biomass stocks
10 13	<b>LUWC-Conversion /Burning aboveground biomass</b>	
	Items 10.13.01 to 10.13.02	5B1 Forest and grassland conversion/Tropical
	Items 10.13.03 to 10.13.04	5B2 Forest and grassland conversion/Temperate
	Items 10.13.05 to 10.13.06	5B3 Forest and grassland conversion/Boreal
	Items 10.13.07 to 10.13.08	5B4 Forest and grassland conversion/Grassland
	Items 10.13.09 to 10.13.10	5B5 Forest and grassland conversion/Other
10 14	<b>LUWC-Conversion /Aboveground biomass decay</b>	
10 14 01	Tropical forests	5B1 Forest and grassland conversion/Tropical
10 14 02	Temperate forests	5B2 Forest and grassland conversion/Temperate
10 14 03	Boreal forests	5B3 Forest and grassland conversion/Boreal
10 14 04	Grassland	5B4 Forest and grassland conversion/Grassland
10 14 05	Other	5B5 Forest and grassland conversion/Other

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10 15	<b>LUWC-Conversion /Soil carbon release</b>	
10 15 01	Tropical forests	5B1 Forest and grassland conversion/Tropical
10 15 02	Temperate forests	5B2 Forest and grassland conversion/Temperate
10 15 03	Boreal forests	5B3 Forest and grassland conversion/Boreal
10 15 04	Grassland	5B4 Forest and grassland conversion/Grassland
10 15 05	Other	5B5 Forest and grassland conversion/Other
10 16	<b>LUWC-Managed land abandonment &lt; 20years / Aboveground biomass carbon uptake</b>	
10 16 01	Tropical forests	5C1 Abandonment of managed lands/Tropical
10 16 02	Temperate forests	5C2 Abandonment of managed lands/Temperate
10 16 03	Boreal forests	5C3 Abandonment of managed lands/Boreal
10 16 04	Grassland	5C4 Abandonment of managed lands/Grassland
10 16 05	Other	5C5 Abandonment of managed lands/Other
10 17	<b>LUWC-Managed land abandonment &lt; 20 years / Soil carbon uptake</b>	
10 17 01	Tropical forests	5C1 Abandonment of managed lands/Tropical
10 17 02	Temperate forests	5C2 Abandonment of managed lands/Temperate
10 17 03	Boreal forests	5C3 Abandonment of managed lands/Boreal
10 17 04	Grassland	5C4 Abandonment of managed lands/Grassland
10 17 05	Other	5C5 Abandonment of managed lands/Other
10 18	<b>LUWC-Managed land abandonment &gt; 20 years / Aboveground biomass carbon uptake</b>	
10 18 01	Tropical forests	5C1 Abandonment of managed lands/Tropical
10 18 02	Temperate forests	5C2 Abandonment of managed lands/Temperate
10 18 03	Boreal forests	5C3 Abandonment of managed lands/Boreal
10 18 04	Grassland	5C4 Abandonment of managed lands/Grassland
10 18 05	Other	5C5 Abandonment of managed lands/Other
10 19	<b>LUWC-Managed land abandonment &gt; 20 years / Soil carbon uptake</b>	
10 19 01	Tropical forests	5C1 Abandonment of managed lands/Tropical
10 19 02	Temperate forests	5C2 Abandonment of managed lands/Temperate
10 19 03	Boreal forests	5C3 Abandonment of managed lands/Boreal
10 19 04	Grassland	5C4 Abandonment of managed lands/Grassland
10 19 05	Other	5C5 Abandonment of managed lands/Other
<b>11</b>	<b>NATURE</b>	
11 01	<b>Non-managed deciduous forests</b>	- Not included
11 02	<b>Non-managed coniferous forests</b>	- Not included
11 03	<b>Forest fires</b>	- Not included
11 04	<b>Natural grassland</b>	- Not included
11 05	<b>Wetlands (marshes - swamps)</b>	- Not included
11 06	<b>Waters</b>	- Not included
11 07	<b>Animals</b>	- Not included
11 08	<b>Volcanoes</b>	- Not included
11 09	<b>Near-surface deposits</b>	- Not included