

## NFR09 TO SNAP CONVERSION

Emissions reported by Parties in NFR format are aggregated to the main SNAP categories for the gap-filling and gridding procedure. The following table is showing the conversion between NFR09 and the SNAP 11 categories.

**Table 1: Conversion between NFR09 and SNAP 11**

NFR09 Code	NFR09 Longname	SNAP Sector
1 A 1 a	Public electricity and heat production	→ SNAP 1
1 A 1 b	Petroleum refining	→ SNAP 1
1 A 1 c	Manufacture of solid fuels and other energy industries	→ SNAP 1
1 A 2 a	Stationary combustion in manufacturing industries and construction: Iron and steel	→ SNAP 3
1 A 2 b	Stationary Combustion in manufacturing industries and construction: Non-ferrous metals	→ SNAP 3
1 A 2 c	Stationary combustion in manufacturing industries and construction: Chemicals	→ SNAP 3
1 A 2 d	Stationary combustion in manufacturing industries and construction: Pulp, Paper and Print	→ SNAP 3
1 A 2 e	Stationary combustion in manufacturing industries and construction: Food processing, beverages and tobacco	→ SNAP 3
1 A 2 f i	Stationary combustion in manufacturing industries and construction: Other (Please specify in your IIR)	→ SNAP 3
1 A 2 f ii	Mobile Combustion in manufacturing industries and construction: (Please specify in your IIR)	→ SNAP 8
1 A 3 a ii (i)	Civil aviation (Domestic, LTO)	→ SNAP 8
1 A 3 a i (i)	International aviation (LTO)	→ SNAP 8
1 A 3 b i	Road transport: Passenger cars	→ SNAP 7
1 A 3 b ii	Road transport: Light duty vehicles	→ SNAP 7
1 A 3 b iii	Road transport: Heavy duty vehicles	→ SNAP 7
1 A 3 b iv	Road transport: Mopeds & motorcycles	→ SNAP 7
1 A 3 b v	Road transport: Gasoline evaporation	→ SNAP 7
1 A 3 b vi	Road transport: Automobile tyre and brake wear	→ SNAP 7
1 A 3 b vii	Road transport: Automobile road abrasion	→ SNAP 7
1 A 3 c	Railways	→ SNAP 8
1 A 3 d i (ii)	International inland waterways	→ SNAP 8
1 A 3 d ii	National navigation (Shipping)	→ SNAP 8
1 A 3 e	Pipeline compressors	→ SNAP 1
1 A 4 a i	Commercial / institutional: Stationary	→ SNAP 2
1 A 4 a ii	Commercial / institutional: Mobile	→ SNAP 8
1 A 4 b i	Residential: Stationary plants	→ SNAP 2
1 A 4 b ii	Residential: Household and gardening (mobile)	→ SNAP 8
1 A 4 c i	Agriculture/Forestry/Fishing: Stationary	→ SNAP 2
1 A 4 c ii	Agriculture/Forestry/Fishing: Off-road vehicles and other machinery	→ SNAP 8
1 A 4 c iii	Agriculture/Forestry/Fishing: National fishing	→ SNAP 8
1 A 5 a	Other stationary (including military)	→ SNAP 2
1 A 5 b	Other, Mobile (including military, land based and recreational boats)	→ SNAP 8
1 B 1 a	Fugitive emission from solid fuels: Coal mining and handling	→ SNAP 5
1 B 1 b	Fugitive emission from solid fuels: Solid fuel transformation	→ SNAP 4
1 B 1 c	Other fugitive emissions from solid fuels	→ SNAP 5
1 B 2 a i	Exploration, production, transport	→ SNAP 5
1 B 2 a iv	Refining / storage	→ SNAP 4
1 B 2 a v	Distribution of oil products	→ SNAP 5
1 B 2 b	Natural gas	→ SNAP 5
1 B 2 c	Venting and flaring	→ SNAP 9
1 B 3	Other fugitive emissions from geothermal energy production , peat and other energy extraction not included in 1 B 2	→ SNAP 5
2 A 1	Cement production	→ SNAP 4
2 A 2	Lime production	→ SNAP 4
2 A 3	Limestone and dolomite use	→ SNAP 4
2 A 4	Soda ash production and use	→ SNAP 4
2 A 5	Asphalt roofing	→ SNAP 4
2 A 6	Road paving with asphalt	→ SNAP 4
2 A 7 a	Quarrying and mining of minerals other than coal	→ SNAP 5
2 A 7 b	Construction and demolition	→ SNAP 4
2 A 7 c	Storage, handling and transport of mineral products	→ SNAP 4
2 A 7 d	Other Mineral products	→ SNAP 4
2 B 1	Ammonia production	→ SNAP 4
2 B 2	Nitric acid production	→ SNAP 4
2 B 3	Adipic acid production	→ SNAP 4
2 B 4	Carbide production	→ SNAP 4
2 B 5 a	Other chemical industry	→ SNAP 4
2 B 5 b	Storage, handling and transport of chemical products	→ SNAP 4
2 C 1	Iron and steel production	→ SNAP 4
2 C 2	Ferroalloys production	→ SNAP 4

NFR09 Code	NFR09 Longname	SNAP Sector
2 C 3	Aluminum production	→ SNAP 4
2 C 5 a	Copper production	→ SNAP 4
2 C 5 b	Lead production	→ SNAP 4
2 C 5 c	Nickel production	→ SNAP 4
2 C 5 d	Zinc production	→ SNAP 4
2 C 5 e	Other metal production	→ SNAP 4
2 C 5 f	Storage, handling and transport of metal products	→ SNAP 4
2 D 1	Pulp and paper	→ SNAP 4
2 D 2	Food and drink	→ SNAP 4
2 D 3	Wood processing	→ SNAP 4
2 E	Production of POPs	→ SNAP 4
2 F	Consumption of POPs and heavy metals (e.g. electrical and scientific equipment)	→ SNAP 4
2 G	Other production, consumption, storage, transportation or handling of bulk products	→ SNAP 6
3 A 1	Decorative coating application	→ SNAP 6
3 A 2	Industrial coating application	→ SNAP 6
3 A 3	Other coating application	→ SNAP 6
3 B 1	Degreasing	→ SNAP 6
3 B 2	Dry cleaning	→ SNAP 6
3 C	Chemical products	→ SNAP 6
3 D 1	Printing	→ SNAP 6
3 D 2	Domestic solvent use including fungicides	→ SNAP 6
3 D 3	Other product use	→ SNAP 6
4 B 1 a	Cattle dairy	→ SNAP 10
4 B 1 b	Cattle non-dairy	→ SNAP 10
4 B 2	Buffalo	→ SNAP 10
4 B 3	Sheep	→ SNAP 10
4 B 4	Goats	→ SNAP 10
4 B 6	Horses	→ SNAP 10
4 B 7	Mules and asses	→ SNAP 10
4 B 8	Swine	→ SNAP 10
4 B 9 a	Laying hens	→ SNAP 10
4 B 9 b	Broilers	→ SNAP 10
4 B 9 c	Turkeys	→ SNAP 10
4 B 9 d	Other poultry	→ SNAP 10
4 B 13	Other	→ SNAP 10
4 D 1 a	Synthetic N-fertilizers	→ SNAP 10
4 D 2 a	Farm-level agricultural operations including storage, handling and transport of agricultural products	→ SNAP 10
4 D 2 b	Off-farm storage, handling and transport of bulk agricultural products	→ SNAP 10
4 D 2 c	N-excretion on pasture range and paddock unspecified	→ SNAP 10
4 F	Field burning of agricultural wastes	→ SNAP 10
4 G	Agriculture other(c)	→ SNAP 10
6 A	Solid waste disposal on land	→ SNAP 9
6 B	Waste-water handling	→ SNAP 9
6 C a	Clinical waste incineration (d)	→ SNAP 9
6 C b	Industrial waste incineration (d)	→ SNAP 9
6 C c	Municipal waste incineration (d)	→ SNAP 9
6 C d	Cremation	→ SNAP 9
6 C e	Small scale waste burning	→ SNAP 9
6 D	Other waste(e)	→ SNAP 9
7 A	Other (included in national total for entire territory)	→ SNAP 5
1 A 3 a ii (ii)	Civil aviation (Domestic, Cruise)	→ SNAP 11
1 A 3 a i (ii)	International aviation (Cruise)	→ SNAP 11
1 A 3 d i (i)	International maritime navigation	→ SNAP 11
1 A 3	Transport (fuel used)	→ SNAP 11
7 B	Other not included in national total of the entire territory	→ SNAP 11
11 A	Volcanoes	→ SNAP 11
11 B	Forest fires	→ SNAP 11
11 C	Other natural emissions	→ SNAP 11

**Table 2: Definition of SNAP 11 categories**

SNAP 1	Combustion in energy and transformation industries
SNAP 2	Non-industrial combustion plants
SNAP 3	Combustion in manufacturing industry
SNAP 4	Production processes
SNAP 5	Extraction and distribution of fossil fuels and geothermal energy
SNAP 6	Solvent use and other product use
SNAP 7	Road transport
SNAP 8	Other mobile sources and machinery
SNAP 9	Waste treatment and disposal
SNAP 10	Agriculture
SNAP 11	Other sources and sinks