

## ***ANNEX 5***

## **Annex 5: Assessment of completeness and (potential) sources and sinks of greenhouse gas emissions and removals excluded**

An assessment of completeness for each sector may be found in the corresponding sub-sectors; here some aggregated information is presented. At the end also CRF Table 9 for 2008 has been included.

### **Sources and sinks**

All sources of direct GHG gases, included in the IPCC Guidelines, are covered in inventory. There are some gaps in estimations. There are also some gaps in estimations of NMVOC emissions in Solvent Use Sector.

### **Gases**

All direct GHGs as well as the postulated precursor gases are covered by the Slovenian inventory.

### **Geographic coverage**

The geographic coverage is complete. No territory in Slovenia has been left uncovered by the inventory.

### **Notation keys**

#### IE (included elsewhere):

There are few categories marked with IE because relevant data are not available on the reporting level but are included in other category. These sources are:

- GHG emissions from inland navigation (included in road transport)
- GHG emissions from jet kerosene – domestic use (included in Other mobile)
- in solvent use sector N<sub>2</sub>O emissions from Fire Extinguishers and Other use (included in anaesthesia)
- All GHG emission from forest fires are reported under Forest land remaining Forest Land
- All CO<sub>2</sub> emissions from agricultural lime application are reported under cropland as limestone (all other categories are reported as IE)

#### NE (not estimated):

There are few categories marked with NE because methodologies for estimating GHG emissions are not available in IPCC manuals from 1996 or in GPG from 2000. These sources are:

- GHG emissions in solvent use sector
- CH<sub>4</sub> from enteric fermentation from poultry

The potential emissions of SF<sub>6</sub> have still not been estimated, because of lack of data. Potential emissions for HFC have been evaluated for 1995-2009 for the whole sector only while the estimation for sub-sectors are missing.

There are still few missing sources in the LULUCF sector in Wetlands, Settlements and Other LULUCF (HWP). The emissions and sinks are not estimated because of lack of relevant data but they are expected to be negligible.

NA (not applicable):

The increase of this number is due to improved completeness of the CRF- tables.

NO (not occurring)

The highest number of source categories marked with NO is found in agriculture and LULUCF sector, but there are some in industrial processes and energy industries.

C (confidential)

Statistical low considering confidentiality is very strict in Slovenia. All data which are gathered from three or less reporting unit are confidential. It is good practise in national statistic that this boundary is even higher (five units). As Slovenia is a small country almost all relevant categories from industrial processes sector and in less extend also in energy sector are confidential. Nevertheless no data in our report is marked with C. The confidentiality problem in activity data has been solved on individual level with each relevant plant. After 2005 verified reports from installations included in ETS, have resolved this problem generally for most cases.

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Sources and sinks not estimated (NE)			
GHG	Sector	Source/sink category	Explanation
Carbon	5 LULUCF	5.D.1 5.D.1 Wetlands remaining Wetlands	Negligible! No data available for emission calculations.
Carbon	5 LULUCF	5.D.1 5.D.1 Wetlands remaining Wetlands	Negligible! No data available for emission calculations.
Carbon	5 LULUCF	5.D.1 5.D.1 Wetlands remaining Wetlands	Negligible! No data available for emission calculations.
Carbon	5 LULUCF	5.D.1 5.D.1 Wetlands remaining Wetlands	Negligible! No data available for emission calculations.
CH4	4 Agriculture	4.A 4.A Enteric Fermentation	No method available
CH4	5 LULUCF	5.D.2 5.D.2 Land converted to Wetlands	Negligible! No data available for emission calculations.
CH4	5 LULUCF	5.E.1 Settlements remaining Settlements	Negligible! No data available for emission calculations.
CH4	5 LULUCF	5.E.2 Land converted to Settlements	Negligible! No data available for emission calculations.
CH4	5 LULUCF	5.G Harvested Wood Products	No data available for calculations.
CH4	6 Waste	6.B.1 6.B.1 Industrial Wastewater	No data available
CO2	3 Solvent and Other Product Use	3.B Degreasing and Dry Cleaning	No data and method available for calculations.
CO2	3 Solvent and Other Product Use	3.C Chemical Products, Manufacture and Processing	No data and method available for calculations.
CO2	5 LULUCF	5.G Harvested Wood Products	No data available for calculations.
HFCs	2 Industrial Processes	2.F.1 Refrigeration and Air Conditioning Equipment	No data available for calculations.
HFCs	2 Industrial Processes	2.F.2 Foam Blowing	No data available for calculations.
HFCs	2 Industrial Processes	2.F.3 Fire Extinguishers	No data available for calculations.
N2O	3 Solvent and Other Product Use	3.B Degreasing and Dry Cleaning	No data available for calculations.
N2O	3 Solvent and Other Product Use	3.D.3 N2O from Aerosol Cans	No data available for calculations.
N2O	5 LULUCF	5.D.2 5.D.2 Land converted to Wetlands	Negligible! No data available for emission calculations.
N2O	5 LULUCF	5.E.1 Settlements remaining Settlements	Negligible! No data available for emission calculations.
N2O	5 LULUCF	5.E.2 Land converted to Settlements	Negligible! No data available for emission calculations.
N2O	5 LULUCF	5.G Harvested Wood Products	No data available for calculations.
SF6	2 Industrial Processes	2.F.8 Electrical Equipment	No data available for calculations.
SF6	2 Industrial Processes	2.F.P2.2 In products	No data available
SF6	2 Industrial Processes	2.F.P3.2 In products	No data available for calculations.

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Sources and sinks reported elsewhere (IE) <sup>(3)</sup>				
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CH4	6.B.2.1 Domestic and Comm. (w/o h.sew.)	6.B.2.1 Wastewater	6.B.2.1 Sludge	Total amount of recovery from WW treatment is reported under sludge
CH4	1.AA.3.A Civil Aviation	1.A.3.a Civil aviation	1.A.5.b Other mobile	No data available
CH4	1.AA.3.D Navigation	1.A.3.D Gas/Diesel Oil	1.A.3.B Gas/Diesel Oil	No separate data available
CH4	1.AA.4.C Agriculture/Forestry/Fisheries	1.A.4.c Agriculture/Forestry/Fisheries	1.A.3.b Road Transport	All amount of bio-diesel and bio-ethanol is reported in Road transport
CH4	5.A.2 Land converted to Forest Land	5.A.2 /5(V) Biomass Burning/ Wildfires	5.A.1 /5(V)	No separate data available. In 5.A.1 5(V) are all burned areas.
CO2	1.AA.3.A Civil Aviation	1.A.3.a Civil aviation	1.A.5.b Other mobile	No data available
CO2	1.AA.3.D Navigation	1.A.3.D Gas/Diesel Oil	1.A.3.B Gas/Diesel Oil	Disaggregated data is not available
CO2	1.AA.4.C Agriculture/Forestry/Fisheries	1.A.4.c Agriculture/Forestry/Fisheries	1.A.3.b Road Transport	All amount of bio-diesel and bio-ethanol is reported in Road transport
CO2	5.A.2 Land converted to Forest Land	5.A.2 /5(V) Biomass Burning/ Wildfires	5.A.1 /5(V)	No separate data available. In 5.A.1 5(V) are all burned areas.
CO2	5.B.1 Cropland remaining Cropland	5.B.1 5(IV) dolomite	5.B.1 5(IV) Limestone	No separate data available
CO2	5.C.1 Grassland remaining Grassland	5.C.1.5(IV) limestone	5.B.1.5(IV) limestone	Disaggregated data are not available
CO2	5.C.1 Grassland remaining Grassland	5.C.1.5(IV) dolomite	5.B.1.5(IV) limestone	Disaggregated data are not available
N2O	3.D.2 Fire Extinguishers	3.D.2 Fire Extinguishers	In the N2O use for anaesthesia.	It is very minor source.
N2O	3.D.4 Other Use of N2O	3.D.4 Other Use of N2O	In the N2O use for anaesthesia.	It is very minor source.
N2O	1.AA.3.A Civil Aviation	1.A.3.a Civil aviation	1.A.5.b Other mobile	No separate data available
N2O	1.AA.3.D Navigation	1.A.3.D Gas/Diesel Oil	1.A.3.B Gas/Diesel Oil	No separate data available
N2O	1.AA.4.C Agriculture/Forestry/Fisheries	1.A.4.c Agriculture/Forestry/Fisheries	1.A.3.b Road Transport	All amount of bio-diesel and bio-ethanol is reported in Road transport
N2O	5.A.2 Land converted to Forest Land	5.A.2 /5(V) Biomass Burning/ Wildfires	5.A.1 /5(V)	No separate data available. In 5.A.1 5(V) are all burned areas.