

ANNEX 1

Annex 1: Key sources

Methodology

IPCC Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, Chapter 7 Methodological Choice and Recalculation

The Tier 1 method to identify *key source categories* assesses the impacts of various source categories on the level and, if possible, the trend, of the national emissions inventory. When the national inventory estimates are available for several years, it is *good practice* to assess the contribution of each source category to both the level and trend of the national inventory. If only a single year's inventory is available, only a Level Assessment can be performed.

The Tier 1 method to identify *key source categories* can be readily completed using a spreadsheet analysis.

Level Assessment – TIER 1

The contribution of each source category to the total national inventory level is calculated according to

Equation 7.1

$$\text{Source Category Level Assessment} = \text{Source Category Estimate} / \text{Total Estimate} \\ L_{x,t} = E_{x,t} / E_t$$

Where:

L_{x,t} is the Level Assessment for source x in year t

Source Category Estimate (E_{x,t}) is the emission estimate of source category x in year t

Total Estimate (E_t) is the total inventory estimate in year t

Trend Assessment - TIER 1

The contribution of each source category's trend to the trend in the total inventory can be assessed if more than one year of inventory data are available, according to

Equation 7.2:

$$\text{Source Category Trend Assessment} = (\text{Source Category Level Assessment}) \square / \\ (\text{Source Category Trend} - \text{Total Trend}) \mid \\ T_{x,t} = L_{x,t} * \square \mid \{[(E_{x,t} - E_{x,0}) / E_{x,t}] - [(E_t - E_0) / E_t]\} \mid$$

Where:

T_{x,t} is the contribution of the source category trend to the overall inventory trend, called the Trend Assessment. The Trend Assessment is always recorded as an

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

absolute value, i.e. a negative value is always recorded as the equivalent positive value.

$L_{x,t}$ is the Level Assessment for source x in year t (derived in Equation 7.1)

$E_{x,t}$ and $E_{x,0}$ are the emissions estimates of source category x in years t and 0 , respectively

E_t and E_0 are the total inventory estimates in years t and 0 , respectively

The Source Category Trend is the change in the source category emissions over time, computed by subtracting the base year (year 0) estimate for source category x from the current year (year t) estimate and dividing by the current year estimate.

The Total Trend is the change in the total inventory emissions over time, computed by subtracting the base year (year 0) estimate for the total inventory from the current year (year t) estimate and dividing by the current year estimate.

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

Table 1: GPG Table 7.A1 (Tier 1 approach) – KC analyze with LULUCF

| rank | CRF | | | | GHG emissions Gg CO2 eq | | contribution to level | | contribution | key category | |
|------|-----|---|--------------------------------------|-----|----------------------------|----------|-----------------------|--------|--------------|--------------|------|
| 2012 | # | Sector | Category | gas | 1986 | 2012 | 1986 | 2012 | to trend | 2012 | 1986 |
| 1 | 5 | LULUCF/ A. Forest land | 1. Forest Land remaining Forest Land | CO2 | 2786.039 | 5899.778 | 0.1075 | 0.2104 | 0.1758 | L,T | L |
| 2 | 1A | 1. a. Public Electricity and Heat Prod. | Solid Fuels | CO2 | 6154.518 | 5589.720 | 0.2375 | 0.1994 | 0.0650 | L,T | L |
| 3 | 1A | 3.b. Road Transportation | Diesel Oil | CO2 | 632.950 | 4017.937 | 0.0244 | 0.1434 | 0.2032 | L,T | L |
| 4 | 1A | 3.b. Road Transportation | Gasoline | CO2 | 1272.478 | 1621.673 | 0.0491 | 0.0579 | 0.0150 | L,T | L |
| 5 | 5 | LULUCF/ C Grasland | 2. Land converted to Grassland | CO2 | 757.937 | 958.120 | 0.0292 | 0.0342 | 0.0084 | L,T | L |
| 6 | 5 | LULUCF/ A. Forest land | 2. Land converted to Forest Land | CO2 | 837.923 | 837.923 | 0.0323 | 0.0299 | 0.0042 | L,T | L |
| 7 | 5 | LULUCF/ E. Settlements | 2. Land converted to Settlements | CO2 | 637.985 | 700.594 | 0.0246 | 0.0250 | 0.0006 | L | |
| 8 | 1A | 4.b. Residential | Liquid Fuels | CO2 | 291.812 | 659.899 | 0.0113 | 0.0235 | 0.0210 | L,T | L |
| 9 | 1A | 2f. Other | Gaseous Fuels | CO2 | 462.917 | 443.820 | 0.0179 | 0.0158 | 0.0035 | L,T | L |
| 10 | 1A | 4.a. Commercial/Institutional | Liquid Fuels | CO2 | 95.153 | 381.970 | 0.0037 | 0.0136 | 0.0170 | L,T | L |
| 11 | 4 | A. Enteric Fermentation | 1. Non-Dairy Cattle | CH4 | 263.057 | 367.574 | 0.0101 | 0.0131 | 0.0051 | L,T | L |
| 12 | 4 | D. Agricultural Soils | 1. Direct Soil Emissions | N2O | 435.343 | 362.898 | 0.0168 | 0.0129 | 0.0066 | L,T | L |
| 13 | 6 | A. Solid Waste Disposal on Land | 1. Managed Waste Disposal on Land | CH4 | 298.801 | 359.001 | 0.0115 | 0.0128 | 0.0022 | L | L |
| 14 | 1A | 1. a. Public Electricity and Heat Prod. | Gaseous Fuels | CO2 | 94.037 | 332.799 | 0.0036 | 0.0119 | 0.0141 | L,T | L |
| 15 | 2 | Industrial Processes | 1. Cement Production | CO2 | 514.615 | 325.913 | 0.0199 | 0.0116 | 0.0141 | L,T | L |
| 16 | 5 | LULUCF/ B. Cropland | 2. Land converted to Cropland | CO2 | 252.906 | 282.865 | 0.0098 | 0.0101 | 0.0006 | L | L |
| 17 | 4 | D. Agricultural Soils | 3. Indirect Emissions | N2O | 334.663 | 280.208 | 0.0129 | 0.0100 | 0.0050 | L,T | L |
| 18 | 1A | 4.b. Residential | Gaseous Fuels | CO2 | 14.249 | 270.011 | 0.0005 | 0.0096 | 0.0155 | L,T | |
| 19 | 1A | 2.f. Other | Liquid Fuels | CO2 | 955.051 | 246.616 | 0.0369 | 0.0088 | 0.0479 | L,T | L |
| 20 | 4 | A. Enteric Fermentation | 1. Dairy Cattle | CH4 | 383.587 | 241.653 | 0.0148 | 0.0086 | 0.0106 | L,T | L |
| 21 | 1B | Fugitive Emissions (1.Solid Fuels) | a. Coal Mining and Handling | CH4 | 358.906 | 240.788 | 0.0138 | 0.0086 | 0.0090 | L,T | L |
| 22 | 2 | Industrial Processes | 1. Refrigeration and AC Equipment | HFC | | 211.270 | 0.0000 | 0.0075 | 0.0129 | L,T | |
| 23 | 1A | 4.b. Agriculture/Forestry | Liquid Fuels | CO2 | 428.364 | 209.119 | 0.0165 | 0.0075 | 0.0155 | L,T | L |
| 24 | 1A | 2.d. Pulp, Paper and Print | Gaseous Fuels | CO2 | 292.430 | 205.330 | 0.0113 | 0.0073 | 0.0068 | L,T | L |
| 25 | 5 | LULUCF/ B. Cropland | 1. Cropland remaining Cropland | CO2 | 224.804 | 185.112 | 0.0087 | 0.0066 | 0.0035 | L,T | L |
| 26 | 5 | LULUCF/ F. Other Land | 2. Land converted to Other Land | CO2 | 151.406 | 172.276 | 0.0058 | 0.0061 | 0.0005 | L | L |
| 27 | 1A | 2.a. Iron and Steel | Gaseous Fuels | CO2 | 344.280 | 166.464 | 0.0133 | 0.0059 | 0.0125 | L,T | L |
| 28 | 4 | B. Manure Management | 1. Non-Dairy Cattle | CH4 | 66.046 | 160.231 | 0.0025 | 0.0057 | 0.0054 | L,T | |
| 29 | 2 | Industrial Processes | 3. Limestone and Dolomite Use | CO2 | 47.390 | 160.118 | 0.0018 | 0.0057 | 0.0066 | L,T | |
| 30 | 4 | B. Manure Management | 1. Dairy Cattle | CH4 | 152.449 | 134.672 | 0.0059 | 0.0048 | 0.0018 | L | L |
| 31 | 4 | B. Manure Management | 13. Solid Storage and Dry Lot | N2O | 267.309 | 126.880 | 0.0103 | 0.0045 | 0.0099 | L,T | L |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|----|----|---|--------------------------------------|-----|---------|---------|--------|--------|--------|-----|---|
| 32 | 1A | 4. Other Sectors | b. Residential | CH4 | 134.558 | 126.729 | 0.0052 | 0.0045 | 0.0011 | L | L |
| 33 | 1A | 2.d. Pulp. Paper and Print | Solid Fuels | CO2 | 218.579 | 126.082 | 0.0084 | 0.0045 | 0.0067 | L,T | L |
| 34 | 2 | Industrial Processes | 3. Aluminium Production | CO2 | 89.402 | 121.649 | 0.0034 | 0.0043 | 0.0015 | L | L |
| 35 | 1A | 2.f. Other | Solid Fuels | CO2 | 345.493 | 89.108 | 0.0133 | 0.0032 | 0.0173 | L,T | L |
| 36 | 4 | B. Manure Management | 8. Swine | CH4 | 228.267 | 87.523 | 0.0088 | 0.0031 | 0.0097 | L,T | L |
| 37 | 1B | Fugitive Emissions (1.Solid Fuels) | a. Coal Mining and Handling | CO2 | 120.238 | 78.622 | 0.0046 | 0.0028 | 0.0031 | T | L |
| 38 | 2 | Industrial Processes | 2. Lime Production | CO2 | 220.206 | 74.001 | 0.0085 | 0.0026 | 0.0100 | T | L |
| 39 | 3 | Solvent and Other Product Use | D. 1. Use of N2O for Anaesthesia | N2O | 81.903 | 60.760 | 0.0032 | 0.0022 | 0.0017 | | L |
| 40 | 6 | B. Waste Water Handling | 2. Domestic and Commercial WW | N2O | 58.858 | 60.446 | 0.0023 | 0.0022 | 0.0002 | | |
| 41 | 1A | 2.b. Non-Ferrous Metals | Gaseous Fuels | CO2 | 109.880 | 59.939 | 0.0042 | 0.0021 | 0.0036 | T | L |
| 42 | 1A | 2.c. Chemicals | Gaseous Fuels | CO2 | 16.042 | 56.610 | 0.0006 | 0.0020 | 0.0024 | | |
| 43 | 5 | LULUCF/ D. Wetlands | 2. Land converted to Wetlands | CO2 | 45.780 | 56.215 | 0.0018 | 0.0020 | 0.0004 | | |
| 44 | 1A | 3. Transport | b. Road Transportation | N2O | 23.704 | 55.258 | 0.0009 | 0.0020 | 0.0018 | | |
| 45 | 1A | 2.e. Food Proc.. Beverages and Tob. | Gaseous Fuels | CO2 | 12.215 | 54.577 | 0.0005 | 0.0019 | 0.0025 | | |
| 46 | 6 | B. Waste Water Handling | 2. Domestic and Commercial WW | CH4 | 117.014 | 51.144 | 0.0045 | 0.0018 | 0.0046 | T | L |
| 47 | 4 | D. Agricultural Soils | 2. Pasture. Range and Paddock Man. | N2O | 23.871 | 50.451 | 0.0009 | 0.0018 | 0.0015 | | |
| 48 | 2 | Industrial Processes | 1. Iron and Steel Production | CO2 | 40.149 | 46.177 | 0.0015 | 0.0016 | 0.0002 | | |
| 49 | 1A | 2.f. Other | Other Fuels | CO2 | 11.373 | 45.757 | 0.0004 | 0.0016 | 0.0020 | | |
| 50 | 1A | 3. Transport | c. Railways | CO2 | 68.182 | 37.471 | 0.0026 | 0.0013 | 0.0022 | | |
| 51 | 1A | 2.e. Food Proc.. Beverages and Tob | Liquid Fuels | CO2 | 220.264 | 32.827 | 0.0085 | 0.0012 | 0.0125 | T | L |
| 52 | 1A | 4.a. Commercial/Institutional | Gaseous Fuels | CO2 | 19.687 | 29.268 | 0.0008 | 0.0010 | 0.0005 | | |
| 53 | 1A | 1. Energy Industries | a. Public Electricity and Heat Prod. | N2O | 26.201 | 26.701 | 0.0010 | 0.0010 | 0.0001 | | |
| 54 | 1A | 2.b. Non-Ferrous Metals | Liquid Fuels | CO2 | 142.133 | 26.601 | 0.0055 | 0.0009 | 0.0077 | T | L |
| 55 | 1A | 4. Other Sectors | b. Residential | N2O | 20.760 | 26.116 | 0.0008 | 0.0009 | 0.0002 | | |
| 56 | 2 | Industrial Processes | 3. Aluminium Production | PFC | 276.291 | 25.704 | 0.0107 | 0.0009 | 0.0166 | T | L |
| 57 | 1A | 4. Other Sectors | c. Agriculture/Forestry/Fisheries | N2O | 49.388 | 25.018 | 0.0019 | 0.0009 | 0.0017 | | |
| 58 | 1A | 1. a. Public Electricity and Heat Prod. | Liquid Fuels | CO2 | 285.199 | 24.659 | 0.0110 | 0.0009 | 0.0173 | T | L |
| 59 | 1A | 3.b. Road Transportation | LPG | CO2 | | 24.188 | 0.0000 | 0.0009 | 0.0015 | | |
| 60 | 1A | 2.a. Iron and Steel | Solid Fuels | CO2 | 658.000 | 23.835 | 0.0254 | 0.0009 | 0.0419 | T | L |
| 61 | 1B | Fugitive Emissions | 2.b. Natural Gas | CH4 | 43.441 | 21.624 | 0.0017 | 0.0008 | 0.0015 | | |
| 62 | 1A | 2.c. Chemicals | Liquid Fuels | CO2 | 60.922 | 21.404 | 0.0024 | 0.0008 | 0.0027 | | |
| 63 | 4 | A. Enteric Fermentation | 3. Sheep | CH4 | 4.242 | 19.178 | 0.0002 | 0.0007 | 0.0009 | | |
| 64 | 2 | Industrial Processes | 8. Electrical Equipment | SF6 | 10.241 | 17.062 | 0.0004 | 0.0006 | 0.0004 | | |
| 65 | 5 | LULUCF | B Cropland | N2O | 13.994 | 13.895 | 0.0005 | 0.0005 | 0.0001 | | |
| 66 | 1A | 2. Manufacturing Ind. and Const. | f. Other | N2O | 35.046 | 12.895 | 0.0014 | 0.0005 | 0.0015 | | |
| 67 | 6 | B. Waste Water Handling | 1. Industrial Wastewater | CH4 | 19.916 | 12.318 | 0.0008 | 0.0004 | 0.0006 | | |
| 68 | 2 | Industrial Processes | 5. Aluminium anode burn-off | CO2 | | 10.331 | 0.0000 | 0.0004 | 0.0006 | | |
| 69 | 2 | Industrial Processes | 7. Other (Glass Production) | CO2 | 4.528 | 10.226 | 0.0002 | 0.0004 | 0.0003 | | |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|-----|----|---|--------------------------------------|-----|---------|-------|--------|--------|--------|---|---|
| 70 | 4 | A. Enteric Fermentation | 8. Swine | CH4 | 18.788 | 9.327 | 0.0007 | 0.0003 | 0.0007 | | |
| 71 | 4 | B. Manure Management | 12. Liquid Systems | N2O | 6.191 | 8.635 | 0.0002 | 0.0003 | 0.0001 | | |
| 72 | 4 | A. Enteric Fermentation | 6. Horses | CH4 | 5.498 | 8.570 | 0.0002 | 0.0003 | 0.0002 | | |
| 73 | 1A | 1. a. Public Electricity and Heat Prod. | Other Fuels | CO2 | | 8.473 | 0.0000 | 0.0003 | 0.0005 | | |
| 74 | 4 | B. Manure Management | 9. Poultry | CH4 | 16.446 | 7.927 | 0.0006 | 0.0003 | 0.0006 | | |
| 75 | 5 | LULUCF/ C Grasland | 1. Grassland remaining Grassland | CO2 | 13.371 | 7.407 | 0.0005 | 0.0003 | 0.0004 | | |
| 76 | 1A | 3. Transport | b. Road Transportation | CH4 | 18.751 | 7.395 | 0.0007 | 0.0003 | 0.0008 | | |
| 77 | 1A | 2.a. Iron and Steel | Liquid Fuels | CO2 | 139.307 | 6.883 | 0.0054 | 0.0002 | 0.0088 | T | L |
| 78 | 1A | 2.d. Pulp. Paper and Print | Liquid Fuels | CO2 | 138.548 | 5.639 | 0.0053 | 0.0002 | 0.0088 | T | L |
| 79 | 6 | C. Waste Incineration | a. and b. waste incineration | CO2 | | 5.406 | 0.0000 | 0.0002 | 0.0003 | | |
| 80 | 1A | 2.b. Non-Ferrous Metals | Solid Fuels | CO2 | 188.312 | 4.955 | 0.0073 | 0.0002 | 0.0121 | T | L |
| 81 | 5 | LULUCF | A. Forest Land | CH4 | 0.000 | 4.908 | 0.0000 | 0.0002 | 0.0003 | | |
| 82 | 1A | 3. Transport | c. Railways | N2O | 8.651 | 4.754 | 0.0003 | 0.0002 | 0.0003 | | |
| 83 | 1A | 1.c. Man. of Solid Fuels and Other EI | Gaseous Fuels | CO2 | 58.720 | 4.194 | 0.0023 | 0.0001 | 0.0036 | T | |
| 84 | 2 | Industrial Processes | 4. Aerosols and MDI | HFC | | 4.217 | 0.0000 | 0.0001 | 0.0003 | | |
| 85 | 1A | 5. Other | b. Mobile - Military use | CO2 | 41.093 | 3.351 | 0.0016 | 0.0001 | 0.0025 | | |
| 86 | 4 | A. Enteric Fermentation | 4. Goats | CH4 | 1.050 | 2.767 | 0.0000 | 0.0001 | 0.0001 | | |
| 87 | 1A | 2. Manufacturing Ind. and Const. | f. Other | CH4 | 6.291 | 2.605 | 0.0002 | 0.0001 | 0.0003 | | |
| 88 | 2 | Industrial Processes | 4. Soda Ash Production and Use | CO2 | 7.827 | 2.588 | 0.0003 | 0.0001 | 0.0004 | | |
| 89 | 1A | 1. Energy Industries | a. Public Electricity and Heat Prod. | CH4 | 1.595 | 2.436 | 0.0001 | 0.0001 | 0.0000 | | |
| 90 | 2 | Industrial Processes | 2. Foam Blowing | HFC | | 1.855 | 0.0000 | 0.0001 | 0.0001 | | |
| 91 | 1A | 4.b. Residential | Solid Fuels | CO2 | 794.124 | 1.786 | 0.0306 | 0.0001 | 0.0522 | T | L |
| 92 | 1A | 3. Transport | a. Civil Aviation | CO2 | 0.622 | 1.747 | 0.0000 | 0.0001 | 0.0001 | | |
| 93 | 1A | 3.b. Road Transportation | CNG | CO2 | | 1.583 | 0.0000 | 0.0001 | 0.0001 | | |
| 94 | 4 | B. Manure Management | 14. Other AWMS | N2O | 2.644 | 1.535 | 0.0001 | 0.0001 | 0.0001 | | |
| 95 | 1A | 2. Manufacturing Ind. and Const. | d. Pulp. Paper and Print | N2O | 1.383 | 1.364 | 0.0001 | 0.0000 | 0.0000 | | |
| 96 | 2 | Industrial Processes | 3. Fire Extinguishers | HFC | | 1.291 | 0.0000 | 0.0000 | 0.0001 | | |
| 97 | 2 | Industrial Processes | 4. Carbide Production | CO2 | 44.985 | 1.175 | 0.0017 | 0.0000 | 0.0029 | | |
| 98 | 1A | 3. Transport | e. Other Transportation | CO2 | | 1.132 | 0.0000 | 0.0000 | 0.0001 | | |
| 99 | 1A | 1.c. Man. of Solid Fuels and Other EI | Liquid Fuels | CO2 | 5.392 | 1.127 | 0.0002 | 0.0000 | 0.0003 | | |
| 100 | 1A | 4. Other Sectors | a. Commercial/Institutional | CH4 | 15.279 | 1.088 | 0.0006 | 0.0000 | 0.0009 | | |
| 101 | 1A | 2. Manufacturing Ind. and Const. | d. Pulp. Paper and Print | CH4 | 1.060 | 0.911 | 0.0000 | 0.0000 | 0.0000 | | |
| 102 | 5 | LULUCF | A. Forest Land | N2O | 0.000 | 0.885 | 0.0000 | 0.0000 | 0.0001 | | |
| 103 | 1A | 4. Other Sectors | a. Commercial/Institutional | N2O | 5.087 | 0.877 | 0.0002 | 0.0000 | 0.0003 | | |
| 104 | 1A | 2. Manufacturing Ind. and Const. | c. Chemicals | N2O | 0.248 | 0.766 | 0.0000 | 0.0000 | 0.0000 | | |
| 105 | 4 | B. Manure Management | 6. Horses | CH4 | 0.428 | 0.667 | 0.0000 | 0.0000 | 0.0000 | | |
| 106 | 1A | 4. Other Sectors | c. Agriculture/Forestry/Fisheries | CH4 | 1.436 | 0.528 | 0.0001 | 0.0000 | 0.0001 | | |
| 107 | 4 | B. Manure Management | 3. Sheep | CH4 | 0.101 | 0.455 | 0.0000 | 0.0000 | 0.0000 | | |
| 108 | 1A | 2. Manufacturing Ind. and Const. | c. Chemicals | CH4 | 0.107 | 0.410 | 0.0000 | 0.0000 | 0.0000 | | |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|-----|----|---------------------------------------|-------------------------------------|-----|---------|-------|--------|--------|--------|--|---|
| 109 | 1A | 2. Manufacturing Ind. and Const. | a. Iron and Steel | CH4 | 2.057 | 0.370 | 0.0001 | 0.0000 | 0.0001 | | |
| 110 | 1A | 2. Manufacturing Ind. and Const. | a. Iron and Steel | N2O | 3.270 | 0.285 | 0.0001 | 0.0000 | 0.0002 | | |
| 111 | 1A | 2. Manufacturing Ind. and Const. | 2.e. Food Proc.. Beverages and Tob | N2O | 0.615 | 0.250 | 0.0000 | 0.0000 | 0.0000 | | |
| 112 | 1A | 2. Manufacturing Ind. and Const. | b. Non-Ferrous Metals | N2O | 1.252 | 0.176 | 0.0000 | 0.0000 | 0.0001 | | |
| 113 | 1A | 2. Manufacturing Ind. and Const. | b. Non-Ferrous Metals | CH4 | 0.691 | 0.143 | 0.0000 | 0.0000 | 0.0000 | | |
| 114 | 1A | 1. Energy Industries | c. Man. of Solid Fuels and Other EI | N2O | 0.226 | 0.141 | 0.0000 | 0.0000 | 0.0000 | | |
| 115 | 1A | 2. Manufacturing Ind. and Const.. | e. Food Proc.. Beverages and Tob. | CH4 | 0.178 | 0.138 | 0.0000 | 0.0000 | 0.0000 | | |
| 116 | 4 | B. Manure Management | 4. Goats | CH4 | 0.025 | 0.066 | 0.0000 | 0.0000 | 0.0000 | | |
| 117 | 1A | 3. Transport | c. Railways | CH4 | 0.078 | 0.043 | 0.0000 | 0.0000 | 0.0000 | | |
| 118 | 6 | C. Waste Incineration | a. and b. waste incineration | N2O | | 0.031 | 0.0000 | 0.0000 | 0.0000 | | |
| 119 | 1A | 5. Other | b. Mobile - Military use | N2O | 0.356 | 0.029 | 0.0000 | 0.0000 | 0.0000 | | |
| 120 | 1A | 3. Transport | a. Civil Aviation | N2O | 0.005 | 0.015 | 0.0000 | 0.0000 | 0.0000 | | |
| 121 | 1A | 1. Energy Industries | c. Man. of Solid Fuels and Other EI | CH4 | 0.201 | 0.009 | 0.0000 | 0.0000 | 0.0000 | | |
| 122 | 1B | Fugitive Emissions | 2. b. Natural Gas | CO2 | 0.005 | 0.002 | 0.0000 | 0.0000 | 0.0000 | | |
| 123 | 1A | 3. Transport | e. Other Transportation | CH4 | | 0.002 | 0.0000 | 0.0000 | 0.0000 | | |
| 124 | 1A | 5. Other | b. Mobile - Military use | CH4 | 0.012 | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| 125 | 1A | 3. Transport | e. Other Transportation | N2O | | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| 126 | 1A | 3. Transport | a. Civil Aviation | CH4 | 0.000 | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| | 2 | Industrial Processes | 5. Other (Methanol) | CH4 | 2.929 | 0.000 | 0.0001 | 0.0000 | | | |
| | 4 | B. Manure Management | 11. Anaerobic Lagoons | N2O | 0.948 | 0.000 | 0.0000 | 0.0000 | | | |
| | 2 | Industrial Processes | 4. Carbide Production | CH4 | 0.783 | 0.000 | 0.0000 | 0.0000 | | | |
| | 1B | Fugitive Emissions | 2.a. Oil | CH4 | 0.422 | 0.000 | 0.0000 | 0.0000 | | | |
| | 1A | 1. Energy Industries | b. Petroleum Refining | CH4 | 0.094 | 0.000 | 0.0000 | 0.0000 | | | |
| | 1A | 1. Energy Industries | b. Petroleum Refining | N2O | 0.069 | 0.000 | 0.0000 | 0.0000 | | | |
| | 1A | 4.a. Commercial/Institutional | Solid Fuels | CO2 | 497.271 | | 0.0192 | 0.0000 | | | L |
| | 2 | Industrial Processes | 2. Ferroalloys Production | CO2 | 57.635 | | 0.0022 | 0.0000 | | | |
| | 1A | 1.b. Petroleum Refining | Gaseous Fuels | CO2 | 43.781 | | 0.0017 | 0.0000 | | | |
| | 1A | 1.c. Man. of Solid Fuels and Other EI | Solid Fuels | CO2 | 40.616 | | 0.0016 | 0.0000 | | | |
| | 1A | 2.c. Chemicals | Solid Fuels | CO2 | 20.545 | | 0.0008 | 0.0000 | | | |
| | 1A | 1.b. Petroleum Refining | Liquid Fuels | CO2 | 18.444 | | 0.0007 | 0.0000 | | | |
| | 1A | 2.e. Food Proc.. Beverages and Tob. | Solid Fuels | CO2 | 15.274 | | 0.0006 | 0.0000 | | | |
| | 1A | 2.c. Chemicals | Other Fuels | CO2 | 0.543 | | 0.0000 | 0.0000 | | | |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

Table 2: GPG Table 7.A1 (Tier 1 approach) – KC analyze w/o LULUCF

| rank | CRF | | | | GHG emissions Gg CO2 eq | | contribution to level | | contribution | key category | |
|------|-----|---------------------------------------|-------------------------------------|-----|-------------------------|----------|-----------------------|--------|--------------|--------------|------|
| 2012 | # | Sector | Category | gas | 1986 | 2012 | 1986 | 2012 | to trend | 2012 | 1986 |
| 1 | 1A | 1. a. Pub. Electricity and Heat Prod. | Solid Fuels | CO2 | 6154.518 | 5589.720 | 0.3048 | 0.2956 | 0.0172 | L,T | L |
| 2 | 1A | 3.b. Road Transportation | Diesel Oil | CO2 | 632.950 | 4017.937 | 0.0313 | 0.2125 | 0.2993 | L,T | L |
| 3 | 1A | 3.b. Road Transportation | Gasoline | CO2 | 1272.478 | 1621.673 | 0.0630 | 0.0858 | 0.0372 | L,T | L |
| 4 | 1A | 4.b. Residential | Liquid Fuels | CO2 | 291.812 | 659.899 | 0.0144 | 0.0349 | 0.0337 | L,T | L |
| 5 | 1A | 2.f. Other | Gaseous Fuels | CO2 | 462.917 | 443.820 | 0.0229 | 0.0235 | 0.0007 | L | L |
| 6 | 1A | 4.a. Commercial/Institutional | Liquid Fuels | CO2 | 95.153 | 381.970 | 0.0047 | 0.0202 | 0.0256 | L,T | L |
| 7 | 4 | A. Enteric Fermentation | 1. Non-Dairy Cattle | CH4 | 263.057 | 367.574 | 0.0130 | 0.0194 | 0.0105 | L,T | L |
| 8 | 4 | D. Agricultural Soils | 1. Direct Soil Emissions | N2O | 435.343 | 362.898 | 0.0216 | 0.0192 | 0.0041 | L,T | L |
| 9 | 6 | A. Solid Waste Disposal on Land | 1. Managed Waste Disposal on Land | CH4 | 298.801 | 359.001 | 0.0148 | 0.0190 | 0.0068 | L,T | L |
| 10 | 1A | 1. a. Pub. Electricity and Heat Prod. | Gaseous Fuels | CO2 | 94.037 | 332.799 | 0.0047 | 0.0176 | 0.0214 | L,T | L |
| 11 | 2 | Industrial Processes | A.1. Cement Production | CO2 | 514.615 | 325.913 | 0.0255 | 0.0172 | 0.0138 | L,T | L |
| 12 | 4 | D. Agricultural Soils | 3. Indirect Emissions | N2O | 334.663 | 280.208 | 0.0166 | 0.0148 | 0.0030 | L | L |
| 13 | 1A | 4.b. Residential | Gaseous Fuels | CO2 | 14.249 | 270.011 | 0.0007 | 0.0143 | 0.0224 | L,T | |
| 14 | 1A | 2.f. Other | Liquid Fuels | CO2 | 955.051 | 246.616 | 0.0473 | 0.0130 | 0.0569 | L,T | L |
| 15 | 4 | A. Enteric Fermentation | 1. Dairy Cattle | CH4 | 383.587 | 241.653 | 0.0190 | 0.0128 | 0.0104 | L,T | L |
| 16 | 1B | Fugitive Emissions | a. Coal Mining and Handling | CH4 | 358.906 | 240.788 | 0.0178 | 0.0127 | 0.0085 | L,T | L |
| 17 | 2 | Industrial Processes | F.1. Refrigeration and AC Equipment | HFC | | 211.270 | 0.0000 | 0.0112 | 0.0185 | L,T | |
| 18 | 1A | b. Agriculture/Forestry | Liquid Fuels | CO2 | 428.364 | 209.119 | 0.0212 | 0.0111 | 0.0169 | L,T | L |
| 19 | 1A | 2.d. Pulp. Paper and Print | Gaseous Fuels | CO2 | 292.430 | 205.330 | 0.0145 | 0.0109 | 0.0061 | L,T | L |
| 20 | 1A | 2.a. Iron and Steel | Gaseous Fuels | CO2 | 344.280 | 166.464 | 0.0170 | 0.0088 | 0.0137 | L,T | L |
| 21 | 4 | B. Manure Management | 1. Non-Dairy Cattle | CH4 | 66.046 | 160.231 | 0.0033 | 0.0085 | 0.0086 | L,T | L |
| 22 | 2 | Industrial Processes | A.3. Limestone and Dolomite Use | CO2 | 47.390 | 160.118 | 0.0023 | 0.0085 | 0.0101 | L,T | |
| 23 | 4 | B. Manure Management | 1. Dairy Cattle | CH4 | 152.449 | 134.672 | 0.0075 | 0.0071 | 0.0008 | L | L |
| 24 | 4 | B. Manure Management | 13. Solid Storage and Dry Lot | N2O | 267.309 | 126.880 | 0.0132 | 0.0067 | 0.0109 | L,T | L |
| 25 | 1A | 4. Other Sectors | 4.b. Residential | CH4 | 134.558 | 126.729 | 0.0067 | 0.0067 | 0.0000 | L | L |
| 26 | 1A | 2.d. Pulp. Paper and Print | Solid Fuels | CO2 | 218.579 | 126.082 | 0.0108 | 0.0067 | 0.0069 | L,T | L |
| 27 | 2 | Industrial Processes | C.3. Aluminium Production | CO2 | 89.402 | 121.649 | 0.0044 | 0.0064 | 0.0033 | L,T | L |
| 28 | 1A | f. Other | Solid Fuels | CO2 | 345.493 | 89.108 | 0.0171 | 0.0047 | 0.0206 | L,T | L |
| 29 | 4 | B. Manure Management | 8. Swine | CH4 | 228.267 | 87.523 | 0.0113 | 0.0046 | 0.0111 | L,T | L |
| 30 | 1B | Fugitive Emissions (1.Solid Fuels) | a. Coal Mining and Handling | CO2 | 120.238 | 78.622 | 0.0060 | 0.0042 | 0.0030 | L | L |
| 31 | 2 | Industrial Processes | 2. Lime Production | CO2 | 220.206 | 74.001 | 0.0109 | 0.0039 | 0.0116 | L,T | L |
| 32 | 3 | Solvent and Other Product Use | D. 1. Use of N2O for Anaesthesia | N2O | 81.903 | 60.760 | 0.0041 | 0.0032 | 0.0014 | L | L |
| 33 | 6 | B. Waste Water Handling | 2. Domestic and Commercial WW | N2O | 58.858 | 60.446 | 0.0029 | 0.0032 | 0.0004 | L | |
| 34 | 1A | 2.b. Non-Ferrous Metals | Gaseous Fuels | CO2 | 109.880 | 59.939 | 0.0054 | 0.0032 | 0.0038 | L,T | L |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|----|----|---------------------------------------|------------------------------------|-----|---------|--------|--------|--------|--------|---|---|
| 35 | 1A | 2.c. Chemicals | Gaseous Fuels | CO2 | 16.042 | 56.610 | 0.0008 | 0.0030 | 0.0036 | T | |
| 36 | 1A | 3. Transport | b. Road Transportation | N2O | 23.704 | 55.258 | 0.0012 | 0.0029 | 0.0029 | | |
| 37 | 1A | 2.e. Food Proc.. Beverages and Tob. | Gaseous Fuels | CO2 | 12.215 | 54.577 | 0.0006 | 0.0029 | 0.0038 | T | |
| 38 | 6 | B. Waste Water Handling | 2. Domestic and Commercial WW | CH4 | 117.014 | 51.144 | 0.0058 | 0.0027 | 0.0051 | T | L |
| 39 | 4 | D. Agricultural Soils | 2. Pasture. Range and Paddock Man. | N2O | 23.871 | 50.451 | 0.0012 | 0.0027 | 0.0024 | | |
| 40 | 2 | Industrial Processes | C.1. Iron and Steel Production | CO2 | 40.149 | 46.177 | 0.0020 | 0.0024 | 0.0007 | | |
| 41 | 1A | 2.f. Other | Other Fuels | CO2 | 11.373 | 45.757 | 0.0006 | 0.0024 | 0.0031 | | |
| 42 | 1A | 3. Transport | c. Railways | CO2 | 68.182 | 37.471 | 0.0034 | 0.0020 | 0.0023 | | L |
| 43 | 1A | 2.e. Food Proc.. Beverages and Tob. | Liquid Fuels | CO2 | 220.264 | 32.827 | 0.0109 | 0.0017 | 0.0152 | T | L |
| 44 | 1A | 4.a. Commercial/Institutional | Gaseous Fuels | CO2 | 19.687 | 29.268 | 0.0010 | 0.0015 | 0.0009 | | |
| 45 | 1A | 1. Energy Industries | a. Pub. Electricity and Heat Prod. | N2O | 26.201 | 26.701 | 0.0013 | 0.0014 | 0.0002 | | |
| 46 | 1A | b. Non-Ferrous Metals | Liquid Fuels | CO2 | 142.133 | 26.601 | 0.0070 | 0.0014 | 0.0094 | T | L |
| 47 | 1A | 4. Other Sectors | b. Residential | N2O | 20.760 | 26.116 | 0.0010 | 0.0014 | 0.0006 | | |
| 48 | 2 | Industrial Processes | 3. Aluminium Production | PFC | 276.291 | 25.704 | 0.0137 | 0.0014 | 0.0205 | T | L |
| 49 | 1A | 4. Other Sectors | c. Agriculture/Forestry/Fisheries | N2O | 49.388 | 25.018 | 0.0024 | 0.0013 | 0.0019 | | |
| 50 | 1A | 1. a. Pub. Electricity and Heat Prod. | Liquid Fuels | CO2 | 285.199 | 24.659 | 0.0141 | 0.0013 | 0.0213 | T | L |
| 51 | 1A | 3.b. Road Transportation | LPG | CO2 | | 24.188 | 0.0000 | 0.0013 | 0.0021 | | |
| 52 | 1A | 2.a. Iron and Steel | Solid Fuels | CO2 | 658.000 | 23.835 | 0.0326 | 0.0013 | 0.0520 | T | L |
| 53 | 1B | Fugitive Emissions | b. Natural Gas | CH4 | 43.441 | 21.624 | 0.0022 | 0.0011 | 0.0017 | | |
| 54 | 1A | 2.c. Chemicals | Liquid Fuels | CO2 | 60.922 | 21.404 | 0.0030 | 0.0011 | 0.0031 | | L |
| 55 | 4 | A. Enteric Fermentation | 3. Sheep | CH4 | 4.242 | 19.178 | 0.0002 | 0.0010 | 0.0013 | | |
| 56 | 2 | Industrial Processes | F.8. Electrical Equipment | SF6 | 10.241 | 17.062 | 0.0005 | 0.0009 | 0.0006 | | |
| 57 | 1A | 2. Man. Industries and Const. | f. Other | N2O | 35.046 | 12.895 | 0.0017 | 0.0007 | 0.0018 | | |
| 58 | 6 | B. Waste Water Handling | 1. Industrial Wastewater | CH4 | 19.916 | 12.318 | 0.0010 | 0.0007 | 0.0006 | | |
| 59 | 2 | Industrial Processes | C.5. Aluminium anode burn-off | CO2 | | 10.331 | 0.0000 | 0.0005 | 0.0009 | | |
| 60 | 2 | Industrial Processes | A.7. Other (Glass Production) | CO2 | 4.528 | 10.226 | 0.0002 | 0.0005 | 0.0005 | | |
| 61 | 4 | A. Enteric Fermentation | 8. Swine | CH4 | 18.788 | 9.327 | 0.0009 | 0.0005 | 0.0007 | | |
| 62 | 4 | B. Manure Management | 12. Liquid Systems | N2O | 6.191 | 8.635 | 0.0003 | 0.0005 | 0.0002 | | |
| 63 | 4 | A. Enteric Fermentation | 6. Horses | CH4 | 5.498 | 8.570 | 0.0003 | 0.0005 | 0.0003 | | |
| 64 | 1A | 1. a. Pub. Electricity and Heat Prod. | Other Fuels | CO2 | | 8.473 | 0.0000 | 0.0004 | 0.0007 | | |
| 65 | 4 | B. Manure Management | 9. Poultry | CH4 | 16.446 | 7.927 | 0.0008 | 0.0004 | 0.0007 | | |
| 66 | 1A | 3. Transport | b. Road Transportation | CH4 | 18.751 | 7.395 | 0.0009 | 0.0004 | 0.0009 | | |
| 67 | 1A | 2.a. Iron and Steel | Liquid Fuels | CO2 | 139.307 | 6.883 | 0.0069 | 0.0004 | 0.0109 | T | L |
| 68 | 1A | 2.d. Pulp. Paper and Print | Liquid Fuels | CO2 | 138.548 | 5.639 | 0.0069 | 0.0003 | 0.0109 | T | L |
| 69 | 6 | C. Waste Incineration | a. and b. waste incineration | CO2 | | 5.406 | 0.0000 | 0.0003 | 0.0005 | | |
| 70 | 1A | 2.b. Non-Ferrous Metals | Solid Fuels | CO2 | 188.312 | 4.955 | 0.0093 | 0.0003 | 0.0150 | T | L |
| 71 | 1A | 3. Transport | c. Railways | N2O | 8.651 | 4.754 | 0.0004 | 0.0003 | 0.0003 | | |
| 72 | 1A | 1.c. Man of Solid Fuels and Other EI | Gaseous Fuels | CO2 | 58.720 | 4.194 | 0.0029 | 0.0002 | 0.0045 | T | |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|-----|----|--------------------------------------|--------------------------------------|-----|---------|-------|--------|--------|--------|---|---|
| 73 | 2 | Industrial Processes | F.4. Aerosols and MDI | HFC | | 4.217 | 0.0000 | 0.0002 | 0.0004 | | |
| 74 | 1A | 5. Other | b. Mobile - Military use | CO2 | 41.093 | 3.351 | 0.0020 | 0.0002 | 0.0031 | | |
| 75 | 4 | A. Enteric Fermentation | 4. Goats | CH4 | 1.050 | 2.767 | 0.0001 | 0.0001 | 0.0002 | | |
| 76 | 1A | 2. Man. Industries and Const. | f. Other | CH4 | 6.291 | 2.605 | 0.0003 | 0.0001 | 0.0003 | | |
| 77 | 2 | Industrial Processes | 4. Soda Ash Production and Use | CO2 | 7.827 | 2.588 | 0.0004 | 0.0001 | 0.0004 | | |
| 78 | 1A | 1. Energy Industries | a. Public Electricity and Heat Prod. | CH4 | 1.595 | 2.436 | 0.0001 | 0.0001 | 0.0001 | | |
| 79 | 2 | Industrial Processes | 2. Foam Blowing | HFC | | 1.855 | 0.0000 | 0.0001 | 0.0002 | | |
| 80 | 1A | 4.b. Residential | Solid Fuels | CO2 | 794.124 | 1.786 | 0.0393 | 0.0001 | 0.0651 | T | L |
| 81 | 1A | 3. Transport | a. Civil Aviation | CO2 | 0.622 | 1.747 | 0.0000 | 0.0001 | 0.0001 | | |
| 82 | 1A | 3.b. Road Transportation | CNG | CO2 | | 1.583 | 0.0000 | 0.0001 | 0.0001 | | |
| 83 | 4 | B. Manure Management | 14. Other AWMS | N2O | 2.644 | 1.535 | 0.0001 | 0.0001 | 0.0001 | | |
| 84 | 1A | 2. Man. Industries and Const. | d. Pulp. Paper and Print | N2O | 1.383 | 1.364 | 0.0001 | 0.0001 | 0.0000 | | |
| 85 | 2 | Industrial Processes | 3. Fire Extinguishers | HFC | | 1.291 | 0.0000 | 0.0001 | 0.0001 | | |
| 86 | 2 | Industrial Processes | C.4. Carbide Production | CO2 | 44.985 | 1.175 | 0.0022 | 0.0001 | 0.0036 | T | |
| 87 | 1A | 3. Transport | e. Other Transportation | CO2 | | 1.132 | 0.0000 | 0.0001 | 0.0001 | | |
| 88 | 1A | 1.c. Man of Solid Fuels and Other EI | Liquid Fuels | CO2 | 5.392 | 1.127 | 0.0003 | 0.0001 | 0.0003 | | |
| 89 | 1A | 4. Other Sectors | a. Commercial/Institutional | CH4 | 15.279 | 1.088 | 0.0008 | 0.0001 | 0.0012 | | |
| 90 | 1A | 2. Man. Industries and Const. | d. Pulp. Paper and Print | CH4 | 1.060 | 0.911 | 0.0001 | 0.0000 | 0.0000 | | |
| 91 | 1A | 4. Other Sectors | a. Commercial/Institutional | N2O | 5.087 | 0.877 | 0.0003 | 0.0000 | 0.0003 | | |
| 92 | 1A | 2. Man. Industries and Const. | c. Chemicals | N2O | 0.248 | 0.766 | 0.0000 | 0.0000 | 0.0000 | | |
| 93 | 4 | B. Manure Management | 6. Horses | CH4 | 0.428 | 0.667 | 0.0000 | 0.0000 | 0.0000 | | |
| 94 | 1A | 4. Other Sectors | c. Agriculture/Forestry/Fisheries | CH4 | 1.436 | 0.528 | 0.0001 | 0.0000 | 0.0001 | | |
| 95 | 4 | B. Manure Management | 3. Sheep | CH4 | 0.101 | 0.455 | 0.0000 | 0.0000 | 0.0000 | | |
| 96 | 1A | 2. Man. Industries and Const. | c. Chemicals | CH4 | 0.107 | 0.410 | 0.0000 | 0.0000 | 0.0000 | | |
| 97 | 1A | 2. Man. Industries and Const. | a. Iron and Steel | CH4 | 2.057 | 0.370 | 0.0001 | 0.0000 | 0.0001 | | |
| 98 | 1A | 2. Man. Industries and Const. | a. Iron and Steel | N2O | 3.270 | 0.285 | 0.0002 | 0.0000 | 0.0002 | | |
| 99 | 1A | 2. Man. Industries and Const. | e. Food Proc.. Beverages and Tob. | N2O | 0.615 | 0.250 | 0.0000 | 0.0000 | 0.0000 | | |
| 100 | 1A | 2. Man. Industries and Const. | b. Non-Ferrous Metals | N2O | 1.252 | 0.176 | 0.0001 | 0.0000 | 0.0001 | | |
| 101 | 1A | 2. Man. Industries and Const. | b. Non-Ferrous Metals | CH4 | 0.691 | 0.143 | 0.0000 | 0.0000 | 0.0000 | | |
| 102 | 1A | 1. Energy Industries | 1.c. Man of Solid Fuels and Other EI | N2O | 0.226 | 0.141 | 0.0000 | 0.0000 | 0.0000 | | |
| 103 | 1A | 2. Man. Industries and Const. | e. Food Proc.. Beverages and Tob. | CH4 | 0.178 | 0.138 | 0.0000 | 0.0000 | 0.0000 | | |
| 104 | 4 | B. Manure Management | 4. Goats | CH4 | 0.025 | 0.066 | 0.0000 | 0.0000 | 0.0000 | | |
| 105 | 1A | 3. Transport | c. Railways | CH4 | 0.078 | 0.043 | 0.0000 | 0.0000 | 0.0000 | | |
| 106 | 6 | C. Waste Incineration | a. and b. waste incineration | N2O | | 0.031 | 0.0000 | 0.0000 | 0.0000 | | |
| 107 | 1A | 5. Other | b. Mobile - Military use | N2O | 0.356 | 0.029 | 0.0000 | 0.0000 | 0.0000 | | |
| 108 | 1A | 3. Transport | a. Civil Aviation | N2O | 0.005 | 0.015 | 0.0000 | 0.0000 | 0.0000 | | |
| 109 | 1A | 1. Energy Industries | 1.c. Man of Solid Fuels and Other EI | CH4 | 0.201 | 0.009 | 0.0000 | 0.0000 | 0.0000 | | |
| 110 | 1B | Fugitive Emissions | b. Natural Gas | CO2 | 0.005 | 0.002 | 0.0000 | 0.0000 | 0.0000 | | |
| 111 | 1A | 3. Transport | e. Other Transportation | CH4 | | 0.002 | 0.0000 | 0.0000 | 0.0000 | | |

SLOVENIA'S NATIONAL INVENTORY REPORT 2014

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|-----|----|--------------------------------------|-----------------------------|-----|---------|-------|--------|--------|--------|--|---|
| 112 | 1A | 5. Other | b. Mobile - Military use | CH4 | 0.012 | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| 113 | 1A | 3. Transport | e. Other Transportation | N2O | | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| 114 | 1A | 3. Transport | a. Civil Aviation | CH4 | 0.000 | 0.001 | 0.0000 | 0.0000 | 0.0000 | | |
| 115 | 2 | Industrial Processes | 5. Other (Methanol) | CH4 | 2.929 | 0.000 | 0.0001 | 0.0000 | | | |
| 116 | 4 | B. Manure Management | 11. Anaerobic Lagoons | N2O | 0.948 | 0.000 | 0.0000 | 0.0000 | | | |
| 117 | 2 | Industrial Processes | 4. Carbide Production | CH4 | 0.783 | 0.000 | 0.0000 | 0.0000 | | | |
| 118 | 1B | Fugitive Emissions | a. Oil | CH4 | 0.422 | 0.000 | 0.0000 | 0.0000 | | | |
| 119 | 1A | 1. Energy Industries | b. Petroleum Refining | CH4 | 0.094 | 0.000 | 0.0000 | 0.0000 | | | |
| 120 | 1A | 1. Energy Industries | b. Petroleum Refining | N2O | 0.069 | 0.000 | 0.0000 | 0.0000 | | | |
| | 1A | 4.a. Commercial/Institutional | Solid Fuels | CO2 | 497.271 | | 0.0246 | | | | L |
| | 2 | Industrial Processes | C.2. Ferroalloys Production | CO2 | 57.635 | | 0.0029 | 0.0000 | | | |
| | 1A | 1.b. Petroleum Refining | Gaseous Fuels | CO2 | 43.781 | | 0.0022 | 0.0000 | | | |
| | 1A | 1.c. Man of Solid Fuels and Other EI | Solid Fuels | CO2 | 40.616 | | 0.0020 | 0.0000 | | | |