

Executive Summary

- Executive Summary

1 - Introduction

- Chapter 1: Introduction
 - 1.1 National Inventory Background
 - 1.2 Institutional Arrangements
 - 1.3 Inventory Preparation Process
 - 1.4 Methods & Data Sources
 - 1.5 Key Categories
 - 1.6 QA/QC & Verification methods
 - 1.7 General Uncertainty Evaluation
 - 1.8 General Assessment of Completeness

2 - Explanation of Key Trends

- Chapter 2: Explanation of Key Trends
 - Nitrogen Oxide (NO_x)
 - Sulfur dioxide (SO₂)
 - Non-Methane Volatile Organic Compounds (NMVOC)
 - Ammonia (NH₃)
 - Carbon Monoxide (CO)
 - Total suspended particulate matter (TSP)
 - Fine Particulate Matter (PM₁₀)
 - Fine Particulate Matter (PM_{2.5})
 - Black Carbon (BC)
 - Persistent Organic Pollutants (POP)
 - Heavy Metals (HM)

3 - Energy (NFR 1)

- Chapter 3: Energy (NFR 1)
- 1.A Fuel Combustion Activities
 - 1.A.1 Energy Industries
 - 1.A.2 Fuel Combustion Activities in Industries and Construction
 - 1.A.3 Transport
 - 1.A.4 Small Combustion
 - 1.A.5 Other (including Military)
- 1.B Fugitive Emissions
 - 1.B.1 Solid Fuels
 - 1.B.2.a Oil
 - 1.B.2.b Natural Gas
 - 1.B.2.c Flaring
 - 1.B.3 Geothermal Energy

4 - Industrial Processes & Product Use (NFR 2)

- Chapter 4: Industrial Processes & Product Use (NFR 2)
- 2.A Mineral Industry
 - 2.A.1 Cement Production

- 2.A.2 Lime Production
 - 2.A.3 Glass Production
 - 2.A.5.a Quarrying and Mining of Minerals other than Coal
 - 2.A.5.b Construction and Demolition
 - 2.A.5.c Storage, Handling and Transport of Mineral Products
 - 2.A.6 Other Mineral Products
- 2.B Chemical Industry
 - 2.B.1 Ammonia Production
 - 2.B.2 Nitric Acid Production
 - 2.B.3 Adipic Acid Production
 - 2.B.5 Carbide Production
 - 2.B.6 Titanium Dioxide Production
 - 2.B.7 Soda Ash Production
 - 2.B.10.a Other
 - 2.B.10.b Storage, Handling and Transport of Chemical Products
- 2.C Metal Production
 - 2.C.1 Iron and Steel Production
 - 2.C.2 Ferroalloys Production
 - 2.C.3 Aluminum Production
 - 2.C.4 Magnesium Production
 - 2.C.5 Lead Production
 - 2.C.6 Zinc Production
 - 2.C.7.a Copper Production
 - 2.C.7.b Nickel Production
 - 2.C.7.c Other Metal Production
 - 2.C.7.d Storage, Handling and Transport of Metal Products
- 2.D Other Solvent and Product Use
 - 2.D.3.a Domestic Solvent Use including fungicides
 - 2.D.3.b Road Paving with Asphalt
 - 2.D.3.c Asphalt Roofing
 - 2.D.3.d Coating Applications
 - 2.D.3.e Degreasing
 - 2.D.3.f Dry Cleaning
 - 2.D.3.g Chemical Products
 - 2.D.3.h Printing
 - 2.D.3.i Other Solvent Use
 - 2.D.3.i Stationary Use of Lubricants
 - 2.D.3.i Mobile Use of Lubricants
- 2.G Other Product Use
 - 2.G.4 Use of Fireworks
 - 2.G.4 Use of Tobacco
 - 2.G.4 Charcoal
- 2.H Other (Pulp & Paper, Food)
 - 2.H.1 Pulp and Paper Industry
 - 2.H.2 Food and Beverages Industry
 - 2.H.3 Other Industrial Processes
- 2.I Wood Processing
- 2.J Production of POPs
- 2.K Consumption of POPs and Heavy Metals
- 2.L Other Production, Consumption, Storage, Transportation or Handling of Bulk Products
 - 2.L(a) Handling of Bulk Products
 - 2.L(b) Diffuse Emissions From Industrial Establishments

5 - Agriculture (NFR 3)

- Chapter 5: Agriculture (NFR 3)
- 3.B Manure Management
- 3.D Agricultural Soils
- 3.F Field Burning Of Agricultural Residues
- 3.I Agricultural: Other

6 - Waste (NFR 5)

- [Chapter 6: Waste](#)
- 5.A & B Biological Treatment of Waste
 - [5.A Biological Treatment of Waste - Solid Waste Disposal on Land](#)
 - [5.B.1 Biological treatment of waste - Composting](#)
 - [5.B.2 Biological treatment of waste - Anaerobic digestion at biogas facilities](#)
- 5.C Thermal Treatment of Waste
 - [5.C.1.b.v Cremation](#)
 - [5.C.2 Open Burning of Waste](#)
- 5.D Wastewater Handling
 - [5.D.1 Domestic & Commercial Wastewater Handling](#)
 - [5.D.2 Industrial Wastewater Handling](#)
- 5.E Other Waste
 - [5.E.1 Mechanical-biological Treatment of Waste](#)
 - [5.E.2 Building and Car Fires](#)

7 - Other and Natural emissions

- [Chapter 7: Other Sources \(NFR 6\) and Natural Sources \(NFR 11\)](#)
- [NFR 6 - Other Sources](#)
- [11 - Natural Sources](#)

8 - Recalculation and Improvements

- [8.1 - Recalculations](#)
- [8.2 - Planned Improvements](#)

9 - Projections

- [Chapter 9: Projections](#)
 - [Results](#)
 - [Introduction](#)
 - [Calculation documentation](#)
 - [WM scenario](#)
 - [WaM scenario](#)
 - [Adjustments](#)
 - [Recalculations](#)

10 - Reporting of gridded emissions and LPS

- [10.1 - Point Sources](#)
- [10.2 - Gridded Data](#)

11 - Adjustments

- [Chapter 11: Adjustments](#)

Appendices

- [Appendices - OVERVIEW](#)
- [Appendix 1: Key Category Analysis \(KCA\)](#)
- [Appendix 2: Detailed Methodological Descriptions](#)
- [Appendix 2.1: Reporting of PM emissions](#)
- [Appendix 2.2: Road Transport](#)
- [Appendix 2.3: Heavy Metal \(HM\) exhaust emissions from mobile sources](#)
- [Appendix 2.4: Persistent Organic Pollutant \(POP\) exhaust emissions from mobile sources](#)
- [Appendix 3: Further Elaboration of Completeness](#)
- [Appendix 4: The National Energy Balance \(NEB\)](#)
- [Appendix 5: Additional Information](#)

Authors

- [Authors](#)

About/Imprint

[About/Imprint](#)