

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](#)

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 \(NFR 11\)](#)
- [11.B Forest Fires](#)

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](#)