

# 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<sub>x</sub>)
  - Sulfur dioxide (SO<sub>2</sub>)
  - Non-Methane Volatile Organic Compounds (NMVOC)
  - Ammonia (NH<sub>3</sub>)
  - Carbon Monoxide (CO)
  - Total suspended particulate matter (TSP)
  - Fine Particulate Matter (PM<sub>10</sub>)
  - Fine Particulate Matter (PM<sub>2.5</sub>)
  - 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.G Other Product Use
  - 2.G.4 Use of Fireworks
  - 2.G.4 Use of Tobacco
  - 2.G.4 Charcoal
  - 2.G.4 Use of Lubricants
- 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 (NFR 6) and Natural (NFR 11) emission sources

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

## 8 - Recalculation and Improvements

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

## 9 - Projections

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

# Downloads & Links

- [DOWNLOADS & LINKS](#)