

# 2006 IPCC GUIDELINES FOR NATIONAL GREENHOUSE GAS INVENTORIES

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### Overview

#### Volume 1: Cross-Cutting Issues and Reporting Tables

*This volume will integrate existing material<sup>1</sup> relevant to cross-cutting issues listed below. A more complete discussion on approaches to data<sup>2</sup> collection (e.g. sampling, use of expert judgement in data collection) will be provided. Specific information on the topics listed below will also be elaborated at the sectoral level.*

- Overview
- Approaches to Data Collection
- Uncertainties
- Methodological Choice and Identification of Key Categories
- Time Series Consistency and Recalculation
- Quality Assurance/Quality Control and Verification
- Reporting Guidance, including Tables

#### Volume 2: Energy

*This volume will integrate and update existing material<sup>1</sup> relevant to the Energy Sector. As appropriate, it will provide methodologies and default data to cover emissions of new sources (see criteria in TOR).<sup>3</sup>*

- Overview and cross-cutting issues
- Reference Approach
- Stationary Combustion
- Mobile Combustion<sup>4</sup>
- Fugitive emissions

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<sup>1</sup> Existing material refers to the Revised 1996 IPCC Guidelines, Good practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories (2000), Good Practice Guidance for LULUCF, the IPCC Emission Factor Database, and any relevant material in literature and the sectors themselves. Methodologies developed under international agreements and conventions (e.g. LRTAP) will be referenced and used where necessary.

<sup>2</sup> Data refers to activity data, emission factors and other data used in inventory compilation.

<sup>3</sup> It is recognised that CO<sub>2</sub> capture and storage is an important emerging issue in inventory development. The coverage of CO<sub>2</sub> storage in this report will be closely coordinated with progress on IPCC SR on CO<sub>2</sub> capture and storage. CO<sub>2</sub> capture activities will be integrated as appropriate into the methods presented for source categories where it may occur.

<sup>4</sup> Emissions from international aviation and maritime transportation will be addressed here, taking into consideration the relevant work of the International Civil Aviation Organization (ICAO) and the International Maritime Organization (IMO).

### **Volume 3: Industrial Processes and Product Use**

*This volume will integrate existing material relevant to Industrial Processes and Solvent and Other Product Use Sectors. It will update as necessary the existing material on current source categories. As appropriate, it will provide methodologies and default data to cover emissions of new halogenated gases. It will also develop methodologies for selected new sources (see criteria in TOR):*

- Overview and cross-cutting issues
- Chemical industry emissions
- Metal industry emissions
- Mineral industry emissions
- Non-energy product and feedstock use of fuels
- Ozone precursors from industrial processes
- Other industrial process emissions
- Solvent and other product use
- Emissions of Fluorinated Substitutes for Ozone Depleting Substances

### **Volume 4: Agriculture, Forestry and Other Land Use**

*This volume will merge the material from the LUCF and Agriculture Chapters of the Revised 1996 IPCC Guidelines, GPG2000 and GPG-LULUCF. The GPG-LULUCF will report on a land-use basis. The emissions from agriculture have been integrated into this new framework in order to resolve inconsistencies and avoid double counting. This integration should be done in a way that consistency of existing inventory data is ensured when reporting emissions and removals from the sector using the new approach. This volume will also update data, methods and emission factors where feasible*

- Overview and cross-cutting issues
- Consistent Representation of Lands
- Agriculture

*The following issues will be elaborated: changes in C stocks (5 pools), burning of biomass/grassland/residues, rice cultivation, non-CO<sub>2</sub> gases, fertilization/liming, organic soils/peat lands, new gases, sources and sinks.*

- Cropland and Grassland Remaining Cropland and Grassland
- Land Converted to Cropland
- Land Converted to Grassland
- Livestock
- Forest lands

*The following issues will be elaborated: changes in C stocks (5 pools), burning of biomass, non-CO<sub>2</sub> gases, fertilization/liming, organic soils/peat lands, new gases, sources and sinks.*

- Forest land remaining forest land
- Land converted to forest land
- Wetlands
  - Peatlands
  - Flooded lands

- Settlements
  - Settlements remaining settlements
  - Land converted to settlements

- Other land
- Other
  - HWP (taking into consideration any decision of the COP on this matter)

### **Volume 5: Waste**

*This volume will integrate and update existing material<sup>1</sup> on the Waste Sector. As appropriate, it will provide methodologies and default data to cover emissions from open burning of waste in solid waste disposal sites, open dumps, consolidation of wastewater treatment and human sewage disposal methods, alternative waste treatment technologies (like anaerobic digestion) and additional gases according to the criteria in TOR.*

- Overview and cross-cutting issues
- Solid Waste Disposal Sites
- Wastewater Handling and Human Sewage
- Waste Incineration