

2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories

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Baasansuren Jamsranjav
Technical Support Unit, IPCC TFI

Background

- Technical assessment of IPCC Inventory Guidelines was carried out through an on-line questionnaire survey and four expert meetings in 2015-2016
- It revealed that there has been abundant new scientific and empirical knowledge published since 2006
- Necessity and usefulness of refinement of the current methodological guidance (e.g. updating default emission factors) has been recognized by Task Force Bureau (TFB)
- A proposal on “Refinement of 2006 IPCC Guidelines for National Greenhouse Gas Inventories, including production of a Methodology Report(s)” was considered by the IPCC at its 43rd Session (IPCC-43) held on 11-13 April 2016 in Nairobi, Kenya

Refinement of the 2006 IPCC Guidelines

- The overall aim of the refinement work is to provide an updated and sound scientific basis for supporting the preparation and continuous improvement of national greenhouse gas inventories
 - Provide supplementary methodologies for sources or sinks of greenhouse gases only where currently there are gaps or where new technologies and production processes have emerged requiring elaborated methodologies or for sources or sinks that are not well covered by the *2006 IPCC Guidelines*
 - Provide updated default values of emission factors and other parameters based on the latest available science only where significant differences from currently adopted factors are identified
 - Provide additional or alternative up-to-date information and guidance, where possible, as clarification or elaboration of existing guidance in the *2006 IPCC Guidelines*

Methodology Report(s)

- IPCC-43 approved the TFI's proposal, and decided to consider the outline of the Methodology Report(s) at the IPCC-44 in October 2016 and to consider the draft Methodology Report(s) at a Plenary session of the IPCC in May 2019
 - Decision IPCC/XLIII-7. Sixth Assessment Report (AR6) Products. Strategic Planning
 - Decision IPCC/XLIII-8. Update of Methodologies on National Greenhouse Gas Inventories

http://www.ipcc.ch/scripts/_session_template.php?page=_43ipcc.htm
- IPCC-43 also approved the proposal to hold a scoping meeting before the IPCC-44 in 2016 for the preparation of the Methodology Report(s) in order to consider the scope and format of the report(s)

Scoping Meeting for a Methodology Report(s)

- A call for nominations was issued on 12 May 2016
 - 198 nominations: 59 Member States, 11 Observer Organizations, and members of IPCC Bureau and TFB
- Scoping meeting for a Methodology Report(s) to refine the *2006 IPCC Guidelines* was held on 29-31 August 2016 in Minsk, Belarus
 - Attended by 94 experts who were selected by TFB from 198 nominees, and also attended by 14 members of TFB and 7 members of TFI TSU
 - Aimed to consider the scope and format of the Methodology Report(s), and to prepare **draft terms of reference**, **draft table of contents** and **draft work plan** for the Methodology Report(s)
 - Took full account of issues identified by the four technical assessment expert meetings held in 2015 and 2016 as well as decisions taken at the IPCC-43
- Meeting report will be available at TFI's website

<http://www.ipcc-nggip.iges.or.jp/>

Scope and Outline of the Methodology Report(s)

- The outcome of the scoping meeting was considered by TFB at its 28th meeting (TFB28) which was held on 1-2 September 2016, Minsk, Belarus
 - Summary of the TFB28 is available at TFI's website
<http://www.ipcc-nggip.iges.or.jp/>
- A proposal on the scope and outline of the Methodology Report(s) to refine the *2006 IPCC Guidelines* as contained in the document **IPCC-XLIV/Doc.12**
http://www.ipcc.ch/scripts/_session_template.php?page=_44ipcc.htm
- Considered and approved at IPCC-44 (17-20 October 2016, Bangkok, Thailand)
 - **Decision IPCC/XLIV-5.** Sixth Assessment Report (AR6) Products, Outline of the Methodology Report(s) to refine the 2006 Guidelines for National Greenhouse Gas Inventories
http://www.ipcc.ch/scripts/_session_template.php?page=_44ipcc.htm

Decision IPCC/XLIV-5

The Intergovernmental Panel on Climate Change decides:

1. To prepare a Methodology Report to refine the 2006 IPCC Guidelines for National Greenhouse Gas Inventories with the following format and title:
 - The format should be **one single Methodology Report** comprising an Overview Chapter and five volumes following the format of the *2006 IPCC Guidelines for National Greenhouse Gas Inventories (2006 IPCC Guidelines)*.
 - The title of the Methodology Report should be "*2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories*".
2. To adopt the terms of reference for the production of a Methodology Report to refine the 2006 IPCC Guidelines for National Greenhouse Gas Inventories as contained in Annex 1 to this Decision.
3. To adopt the table of contents of the Methodology Report as contained in Annex 2 to this Decision.
4. To take note of document IPCC-XLIV/INF.7.
5. That the budget for the production of this Methodology Report is as contained in Decision (IPCC/XLIV-1) on the IPCC Trust Fund Programme and Budget.

Terms of Reference

- Sets out background, scope and approach
 - A refinement of the *2006 IPCC Guidelines* is required as early as possible in order to address the issues that were identified through the technical assessment. The refinement will help all UNFCCC Parties use good practice inventory methodologies based on up-to-date scientific knowledge
 - The refinement work will not revise the *2006 IPCC Guidelines*, but will update, supplement and/or elaborate the *2006 IPCC Guidelines* where gaps or out-of-date science have been identified. The Methodology Report will not replace the *2006 IPCC Guidelines*, but will be used in conjunction with the *2006 IPCC Guidelines*.
 - The authors will follow Appendix 2 "Instructions to Experts and Authors" to ensure a consistent and coherent approach across all the volumes or chapters, including the use of common terminology.
 - Table 1 provides the time table (Work plan)

Instructions to Experts and Authors

- Intended as a guidance to experts contributing to a new Methodology Report
 - The role of authors is to impartially assess all the available literature and to describe the best methodologies available. Authors should review all literature available up to a cut-off date
 - Guidance in the new Methodology Report should be understandable and easy to implement
 - The general structure, approach and definitions used in the *2006 IPCC Guidelines*, such as tiered approach and decision trees will be followed
 - IPCC default factors should in principle be presented as regional factors. In case regional factors are unavailable, single IPCC default factors might be provided, ensuring that the defaults are representative of typical conditions as far as can be determined. It may be necessary or appropriate to provide a range of default factors along with clear guidance about how countries should select from within the range.

Draft Table of Contents

- Structure is the same as that of the *2006 IPCC Guidelines*
- For those chapters/sections/subsections where refinement is expected, the following three elements are explained:
 - Issue (which needs to be addressed)
 - Location in *2006 IPCC Guidelines* (e.g. section, subsection, table)
 - Type of refinement (e.g. update, elaboration, new guidance)

Chapter 7 Precursors and Indirect Emissions

Issue: Elaborate clearer guidance for the calculation of indirect CO₂ emissions.

Location in 2006 IPCC Guidelines: Section 7.2.1.5

Type of refinement: Elaboration

Chapter 8 Reporting Guidance and Tables

No refinement

Thank you

<http://www.ipcc-nggip.iges.or.jp>