

Technical Assessment of IPCC TFI Products

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TFI Products

- **Methodology Reports** including:
 - 2006 IPCC Guidelines for National GHG Inventories (*2006 IPCC Guidelines*)
 - 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands (*Wetlands Supplement*)
 - To fill gaps in the coverage of wetlands and organic soils in the *2006 IPCC Guidelines*
 - To be used in conjunction with the *2006 IPCC Guidelines*
 - 2013 Revised Supplementary Methods and Good Practice Guidance Arising from the Kyoto Protocol (*KP Supplement*)
 - To update and augment the existing Chapter 4 of the *GPG-LULUCF*
 - To be used in conjunction with the *2006 IPCC Guidelines*
- **Supporting Material** (tools to support inventory compilers) such as:
 - Emission Factor Database (EFDB)
 - IPCC Inventory Software

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

Methodology Reports

- *2006 IPCC Guidelines*
 - Annex I Parties shall use the methodologies provided in the *2006 IPCC Guidelines* for estimation of GHG emissions (Annex I to Decision 24/CP.19)
 - The SBI noted the requests from non-Annex I Parties for further technical support aimed at improving their domestic capacity to facilitate continuity in meeting reporting requirements through training on the use of the *2006 IPCC Guidelines* (FCCC/SBI/2015/10)
- *Wetlands Supplement*
 - Annex I Parties are encouraged to use in preparing their annual inventories under the Convention due in 2015 and beyond (Decision 24/CP.19)
 - Shall apply for providing information on wetland drainage and rewetting elected activity under Article 3, paragraph 4; the use of Wetland Supplement is encouraged but not mandatory for any other activities under Article 3 paragraphs 3 and 4 of the Kyoto Protocol (Decision 6/CMP.9)
- *KP Supplement*
 - Annex I Parties shall apply for purpose of providing information on GHG emissions/removals from LULUCF activities in the second commitment period (6/CMP.9)

Technical Assessment of IPCC Inventory Guidelines (1)

- Expert Meeting on Systematic Assessment of TFI Products (25-27 August 2014 in Ottawa, Canada)
 - Assessed the TFI products and considered possible enhancements, improvements and additions to existing guidance, as well as ways to enhance utility of the TFI products such as EFDB and Inventory Software
- Subsequently, TFI Bureau (TFB) concluded:
 - The *2006 IPCC Guidelines* provide a technically sound methodological basis of national GHG inventory, and therefore fundamental revision is unnecessary
 - To keep the validity of the *2006 IPCC Guidelines*, certain refinements may be required, taking into account scientific and other technical advances that have matured sufficiently since 2006
 - More in-depth technical assessments should be undertaken
- TFB decided to conduct technical assessment through the combination of an on-line questionnaire survey and expert meetings

Technical Assessment of IPCC Inventory Guidelines (2)

- The on-line survey aimed to collect inputs from experts about the need and the feasibility of methodological development or refinement for specific categories and gases
 - Conducted from 30 January to 27 February 2015
- The TFB considered the results of the survey and developed a provisional list of issues for consideration more in detail at the expert meetings
 - Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (Energy, IPPU, Waste Sectors), 29 June -1 July 2015, Geneva, Switzerland
 - Expert Meeting for Technical Assessment of IPCC Inventory Guidelines (AFOLU Sector), 13-16 July 2015, Sao Paulo, Brazil

Results of on-line questionnaire survey

- Questionnaire sent to
 - Experts who were nominated by governments and international organizations
 - Experts who have contributed to TFI work
- 243 experts have submitted their comments

	Number of respondents	Number of comments
Energy Sector	76	206
IPPU Sector	42	128
AFOLU Sector	137	380
Waste Sector	43	112
Other Sector	5	6
Cross-Sectoral	58	155
TOTAL	243	987

Expert Meetings for Technical Assessment

- Aimed to:
 - assess the maturity of scientific advances and the availability of new data
 - identify any specific areas or issues that should be prioritized in TFI's future work
 - consider associated cross-sectoral issues identified in the online questionnaire survey
- Considered comments submitted by experts in response to the online questionnaire survey to make recommendations to TFB on:
 - Categories for which the science is sufficiently mature and data are available to recommend refinement or development of inventory guidance
 - Where such refinement or development on the basis of this new information would lead to a noticeable improvement to inventory guidance
 - Specific type of refinement or updating that is needed for those categories
 - How these refinements could be made (i.e., suggested possible ways to address issues)
- Agreed on a number of issues that need to be addressed in the future TFI work

Expert Meetings for Technical Assessment: Major Recommendations (1)

- Some of the issues need to be addressed by producing a new Methodology Report(s). It is necessary to
 - develop new or additional guidance on sources and/or gases that are not covered by the *2006 IPCC Guidelines* (e.g., GHG emissions from unconventional oil and gas production, GHG emissions from hydrogen production, N₂O emissions from industrial wastewater treatment process)
 - refine guidance to reflect significant scientific or technical developments since the *2006 IPCC Guidelines* were completed (e.g., guidance on land representation linking land classification system and digital maps)
 - update or add default data of emission factors and other parameters for some categories (e.g., fugitive emissions from oil and gas, substitutes for ozone depleting substances used for refrigeration and air conditioning, N₂O emissions from wastewater treatment, values for litter and deadwood, biomass expansion factors (BEF)/biomass conversion and expansion factors (BCEF), direct/indirect N₂O emissions from managed soils)

Expert Meetings for Technical Assessment: Major Recommendations (2)

- Some other issues can be addressed by utilizing other means (IPCC Supporting Materials) including the EFDB, TFI's webpage on Frequently Asked Questions (FAQs) and technical bulletins or expert meeting reports
- Refinements by EFDB and FAQs can start as soon as practicable
- Some issues require further consideration by relevant experts before starting refinements (e.g., identification of unknown sources of perfluorocarbons (PFCs), updating of some emission factors/parameters and methodological clarification in Agriculture sector)
- There are several cross-sectoral issues that need to be considered
- Many participants were of the view that there should be a mechanism to update Tier 1 (default) data of emission factors and other parameters more frequently

Technical Assessment of IPCC Inventory Guidelines (3)

- The 27th Session of Bureau of TFI (TFB27) held on 16-18 November 2015, Hayama, Japan
 - discussed the future TFI work plan taking into consideration the recommendations from the expert meetings
- Two expert meetings for the Technical Assessment to be held in April 2016
 - To follow up on issues identified at the two expert meetings held in 2015
 - To consider cross-sectoral issues covering the issues identified through the on-line questionnaire survey as well as those identified at the two expert meetings held in 2015

Thank you

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