

IPCC TFI: Recent Activities

- The 13th Workshop on GHG Inventories in Asia (WGIA13)
- Capacity building for measurability, reportability and verifiability -
4-6 August, 2015
Bali, Indonesia

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Outline

- Background
- New Methodology Reports
 - *Wetlands Supplement*
 - *KP Supplement*
- Technical Assessment of IPCC Inventory Guidelines
- Emission Factor Database (EFDB)
- IPCC Inventory Software
- Other Activities of IPCC TFI

Background

- Task Force on National Greenhouse Gas Inventories (TFI) is established in 1998 by the IPCC
- The objectives of the TFI are:
 - develop and refine an internationally-agreed methodology for calculation and reporting of national GHG emissions and removals
 - encourage the widespread use of this methodology by countries participating in the IPCC and by Parties of the United Nations Framework Convention on Climate Change (UNFCCC)
- Technical Support Unit (TSU) provides support to the TFI under the overall supervision of the Bureau of TFI
- The TFI will be retained with current mandate and structure under the next assessment cycle: starting in October 2015 and is expected to end in 2022 at the latest (Decision IPCC/XLI-4)

New Methodology Reports

- The TFI has developed two additional Methodology Reports in response to the invitations from UNFCCC
 - 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*
 - 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*
- The *Wetlands Supplement and KP Supplement* were adopted/accepted by the IPCC Plenary at its 37th Session in Batumi, Georgia, 14-18 October 2013, and published on the TFI website in February 2014

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

Technical Assessment of IPCC Inventory Guidelines (1)

- 9 years since *2006 IPCC Guidelines* were produced
- Expert Meeting on Systematic Assessment of TFI Products (25-27 August 2014 in Ottawa, Canada)
 - Assessed the TFI products including the *2006 IPCC Guidelines*
- Subsequently, TFI Bureau (TFB) concluded:
 - The *2006 IPCC Guidelines* provide a technically sound methodological basis of national greenhouse gas 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

Technical Assessment of IPCC Inventory Guidelines (2)

- Through the combination of an on-line questionnaire survey and expert meetings
- The on-line questionnaire survey aimed to collect inputs from inventory 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 categories and gases as well as cross-sectoral issues for consideration more in detail at the expert meetings
 - Expert Meeting on Energy, IPPU, Waste Sectors (29 June -1 July 2015, Geneva, Switzerland)
 - Expert Meeting on AFOLU Sector (13-16 July 2015, Sao Paulo, Brazil)
- Expert meetings to assess the maturity of scientific advances and the availability of new data, and to identify any specific areas or issues that should be prioritized in TFI's future work for consideration by TFB

Technical Assessment of IPCC Inventory Guidelines (3)

- The on-line questionnaire survey
 - Experts who were nominated by governments and international organizations
 - Experts who have contributed to TFI work
- 243 experts have submitted their views

	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

IPCC EFDB (1)

- Library of emission factors/parameters and other relevant data
 - Default values from IPCC Guidelines
 - Data from peer-reviewed scientific papers
 - Data from non-peer reviewed publications (government reports, industry studies etc.)

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

- Evolves dynamically – data proposals (e.g. inventory compilers, researchers) and data collection efforts (e.g. expert meetings)
 - Open to any data proposals
- Communication platform for distribution of new research and measurement data
- Data evaluated by Editorial Board
- Users decide if data is suitable in their specific situation

IPCC EFDB (2)

IPCC NGGIP

IPCC web sites

Home Login Find EF Single Input Mini-Batch Import Documents Downloads Help

Find EF - Search criteria

Click [here](#) for online help.

IPCC Guidelines version: 2006 OK

Several search options available

Specify the criteria such as IPCC source/sink category, gases, and click "Apply"

IPCC Source/Sink Category

Root -> Waste (4) -> Wastewater Treatment and Discharge (4.D)

- ▶ 4.D.1: Domestic Wastewater Treatment and Discharge
- ▶ 4.D.2: Industrial Wastewater Treatment and Discharge

Gases

CO2, CH4 & N2O OK

Gas name	Formula	Select gas
		<input checked="" type="checkbox"/>
CARBON DIOXIDE	CO2	<input type="checkbox"/>
METHANE	CH4	<input checked="" type="checkbox"/>
NITROUS OXIDE	N2O	<input checked="" type="checkbox"/>

Apply

Status of search

Results can be exported to excel format

Status

- ▶ IPCC 2006 Source/Sink Category: Waste (4) -> Wastewater Treatment and Discharge (4.D) -> Domestic Wastewater Treatment and Discharge (4.D.1)
- ▶ Gases: CH4, N2O
- ▶ Number of emission factors covered by your criteria: 129

<< Back to Find EF Start Page

Output table

IPCC EFDB (3)

- Continuing efforts for data collection
 - Expert meetings
 - 9th and 10th Expert Meetings on Data for AFOLU sector (Italy, November 2014)
 - 11th and 12th Expert Meetings on Data will be held in November 2015, Japan
 - Literature search
- Annual Editorial Board meeting to discuss how to enhance/improve the EFDB and evaluate data proposals
 - 12th Meeting of Editorial Board for the IPCC EFDB (Italy, November 2014)
 - 13th Meeting of Editorial Board will be held in November 2015, Japan
- User-interface is being further improved

IPCC Inventory Software (1)

- Implements the *2006 IPCC Guidelines*, but it can also be used for reporting under the *Revised 1996 IPCC Guidelines*
 - Output in Non-Annex I National Communications format
 - Can be used for the whole inventory or individual categories
- Database based, does not require internet access or expensive hardware, freely available at IPCC TFI website

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

- Includes Uncertainty & Key Category Analysis and aids QA/QC
- Can export/import inventory data (e.g. worksheet data) and generates reporting tables (e.g. sectoral and background)
- The latest version was released in November 2013

IPCC Inventory Software (2)

- Continuing support to users:
 - Help Desk:
ipcc-software@iges.or.jp
 - Web Forum:
<https://discussions.zoho.com/ipccinventorysoftware/>
- Organizing expert meetings annually
 - Expert meeting to collect EFDB and Software users' feedback, 17-19 March 2015, Okinawa, Japan
- Will be developed to implement Tier 2 methods

Expert Meetings

- Supporting users of the IPCC Guidelines through expert meetings addressing various topics of concern, e.g.:
 - Expert meeting on Fugitive Emissions from Oil and Natural Gas Systems (including shale gas, coal bed methane, etc.), 20-22 August 2013, Washington D.C., USA
 - Expert Meeting on Application of 2006 IPCC Guidelines to Other Areas, 1-3 July 2014, Sofia, Bulgaria
 - Expert Meeting on Systematic Assessment of TFI Products, 25-27 August 2014, Ottawa, Canada

Frequently Asked Questions (FAQs)

- Answers to FAQs

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

- Continuously updated – new Q&As related to the use of 2006 IPCC Guidelines to other areas

The screenshot shows the website header for the Task Force on National Greenhouse Gas Inventories (TFI). The header includes the IPCC logo and the text "INTERGOVERNMENTAL PANEL ON climate change" along with the WMO and UNEP logos. A dropdown menu shows "IPCC web sites". The main content area has a blue navigation bar with "FAQs" selected. Below this is a "Frequently Asked Questions" section with a "printable version" link and a PDF icon. The first question is "1. IPCC Task Force on National Greenhouse Gas Inventories (TFI), general guidance and other inventory issues". Underneath, there is a sub-section "1.1. Questions about IPCC National Greenhouse Gas Inventories Programme" with four numbered questions: "Q1-1-1. What is the role of the IPCC in Greenhouse Gas Inventories and reporting to the UNFCCC?", "Q1-1-2. How does the IPCC produce its Inventory Guidelines?", "Q1-1-3. What are the required steps to be taken to have an inventory methodology accepted by the IPCC?", and "Q1-1-4. How can new data and information be taken up by the IPCC NGGIP?". On the left side of the screenshot, there is a vertical navigation menu with links to "Home IPCC", "IPCC-TFI Home", "Organization", "Publications", "Inventory Software", "Meetings", "2013 Wetlands Supplement", "2013 KP Supplemental Guidance", and "FAQs".

Support to Training Programmes on GHG Inventories

- TFI itself does not organize training programmes
- However, provides technical support to those hosted by others through attendance of TSU staff as resource persons, e.g. ;
 - Regional African Workshops on REDD+ National Forest Monitoring Systems and Greenhouse Gas National Inventory Systems, 25-27 February 2014, Livingstone, Zambia
 - Workshop on National Greenhouse Gas Inventory System for Lusophone Countries, 2-4 April 2014, Luanda, Angola
 - JICA Training Course: Development of Strategies on Climate Change, 12-15 August 2014, Tokyo, Japan
 - African Regional Workshop: Technical Training on National GHG Inventories, 24-27 March 2015, Windhoek, Namibia
 - Regional Training on National GHG Inventories using the 2006 IPCC Guidelines and the IPCC Inventory Software, 22-23 April 2015, Kuala Lumpur, Malaysia

Thank you

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