# **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

Baasansuren Jamsranjav, IPCC TFI TSU





## **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 37<sup>th</sup> 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
<b>Energy Sector</b>	76	206
IPPU Sector	42	128
<b>AFOLU Sector</b>	137	380
<b>Waste Sector</b>	43	112
Other Sector	5	6
<b>Cross-Sectoral</b>	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.)

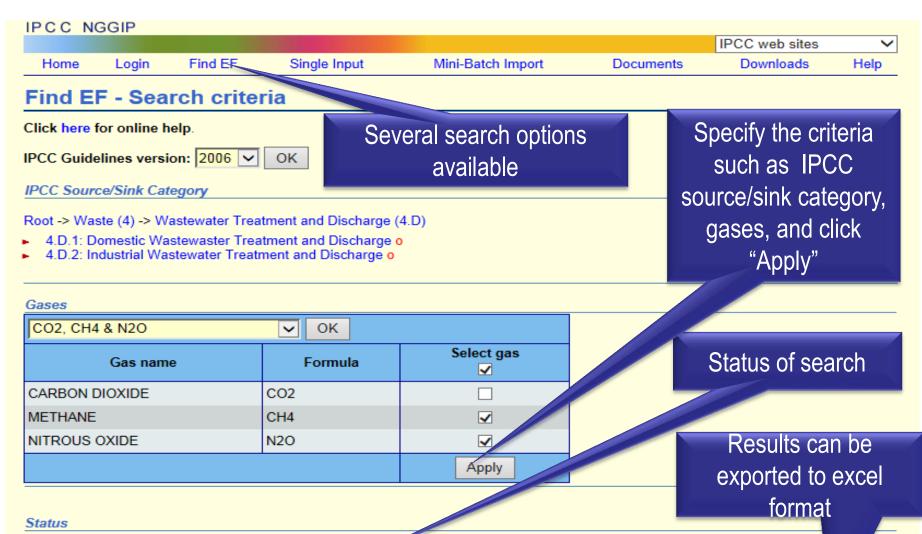
#### http://www.ipcc-nggip.iges.or.jp/EFDB/

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



Output table

56

## IPCC EFDB (3)

- Continuing efforts for data collection
  - Expert meetings
    - 9<sup>th</sup> and 10<sup>th</sup> Expert Meetings on Data for AFOLU sector (Italy, November 2014)
    - 11<sup>th</sup> and 12<sup>th</sup> 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
  - > 12<sup>th</sup> Meeting of Editorial Board for the IPCC EFDB (Italy, November 2014)
  - > 13<sup>th</sup> Meeting of Editorial Board will be held in November 2015, Japan
- User-interface is being further improved



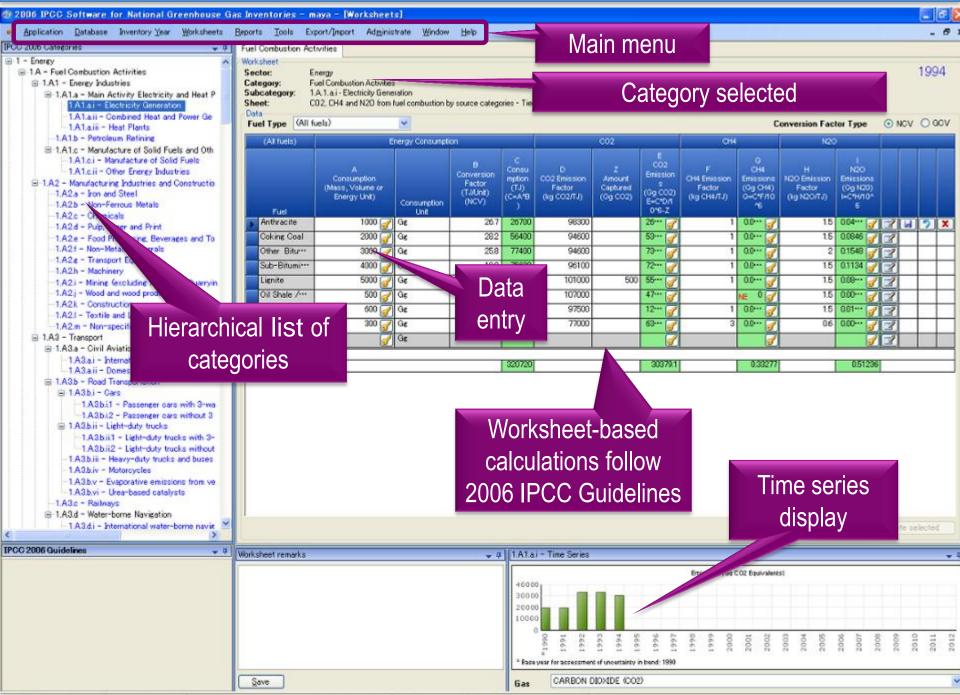


# **IPCC Inventory Software (1)**

- 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:
    <u>ipcc-software@iges.or.jp</u>
  - 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







#### **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



