

Task Force on National Greenhouse Gas Inventories (TFI)

Since 1999 the TFI has been generously supported by the Government of Japan and its Technical Support Unit is based in Hayama, Japan.

Role

The TFI works on greenhouse gas inventory-related methodologies and practices.

The TFI is responsible for assessing and developing inventory methods and practices which are scientifically sound and relevant to all countries, noting particularly the lack of information in developing countries.

Guidelines

The first methodologies were produced by the IPCC in the early 1990s and have been revised and updated since. The guidelines currently in use are:

- Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (1996 Guidelines)
- Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories (GPG 2000)
- Good Practice Guidance for Land Use, Land-Use Change and Forestry (GPG LULUCF)
- 2006 IPCC Guidelines for National Greenhouse Gas Inventories (2006 Guidelines)

The 1996 Guidelines, GPG 2000 and GPG LULUCF are used by Parties to the United Nations Framework Convention on Climate Change (UNFCCC) to estimate emissions and removals of greenhouse gases. Their use is mandatory for Annex I Parties and encouraged for non-Annex I Parties.



The 2006 Guidelines were produced in response to an invitation from the UNFCCC and Parties to the Convention are currently considering their use for reporting in the future.

Good practice guidance

The guidance covers not just technical methodologies but the whole system needed to produce regular, high quality inventories and covers QA/QC, documentation and reporting – “good practice”.

Inventories that meet the requirements of good practice are those which neither over- nor under-estimate emissions as far as can be judged and where uncertainties are reduced as much as practical.

Good practice inventories are:

**Transparent + Complete +
Internally Consistent +
Comparable between countries +
Accurate**

The GPG 2000 and the GPG LULUCF have now been updated and merged into the methodological guidance in the 2006 Guidelines.

Emission Factor Database (EFDB)

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

EF ID	IPCC 1996	IPCC 2006	Gas	Description	Technologies / Practices	Parameters / Conditions	Region / Country	Adjustment / Notes	Other properties	Value	Unit	Data provider	Source of data	Action
42108	Methane - Dairy	3.A.2.a - Dairy cows	METHANE	Manure Management Emission Factor	Liquid-based systems are commonly used	Annual Average temperature is less than 15°C	Climate: Cool Region: North America			36	kg/head/yr	IPCC	Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (Table 4.4 on Page 4-13 of the Reference Manual)	Detail
42107	Methane - Dairy	3.A.2.a - Dairy cows	METHANE	Manure Management Emission Factor	Liquid-based systems are commonly used	Annual Average temperature is between 15°C and 25°C	Climate: Temp Region: North America			34	kg/head/yr	IPCC	Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (Table 4.4 on Page 4-13 of the Reference Manual)	Detail
42109	Methane - Dairy	3.A.2.a - Dairy cows	METHANE	Manure Management Emission Factor	Liquid-based systems are commonly used	Annual Average temperature is greater than 25°C	Climate: Warm Region: North America			76	kg/head/yr	IPCC	Revised 1996 IPCC Guidelines for National Greenhouse Gas Inventories (Table 4.4 on Page 4-13)	Detail

The EFDB is an electronic library of emission factors and other parameters that supplement the approved guidelines with data that might better represent specific national circumstances. Inventory compilers can use the EFDB to find data and must then check the documentation to ensure the data is suitable for their specific use.

Any inventory compilers or other inventory experts can propose data that are then checked and approved by the Editorial Board to ensure the data are applicable, robust and well documented. To submit data to the database please contact the TSU.

The database is available on-line or a CD version is periodically produced for those with limited internet access.

Help for Inventory Compilers

The TFI also undertakes additional activities to assist inventory compilers. We hold expert meetings on topics related to inventory compilation and our web site holds useful information and data.

TFI website

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

- All the documents and guidelines,
- Frequently Asked Questions,
- Presentations explaining parts of the guidelines,
- Brochures and
- Primer introducing the 2006 Guidelines.

Other Reports

In addition there are other reports covering specific topics of interest to inventory compilers. These include:

- Definitions and Methodological Options to Inventory Emissions from Direct Human-induced Degradation of Forests and Devegetation of Other Vegetation Types (2003)
- Report of the Expert Meeting on Revisiting the Use of Managed Land as a Proxy for Estimating National Anthropogenic Emissions and Removals (2009)
- Datasets for use in the IPCC Guidelines - FAO data and how it can be used in the IPCC Agriculture and Land Use Guidelines 2010
- National Forest GHG Inventories – A Stock Taking (2010)
- Expert Meeting on Uncertainty and Validation of Emission Inventories (2010)
- Tier 3 Approaches, Complex Models or Direct Measurements, in Greenhouse Gas Inventories (2010)
- IPCC Expert Meeting on HWP, Wetlands and Soil N₂O (to be published)

Availability of Guidelines and Documents

All current documents are available from our web site and can be freely downloaded, printed and copied (all we ask is that the IPCC TFI is acknowledged as the source of the material).

The guidelines are available in all 6 UN languages: Arabic, Chinese, English, French, Russian and Spanish. We also produce and distribute free CDs of the Guidelines and EFDB. There are also limited numbers of hard copies of the guidelines and we distribute these to inventory compilers in developing countries.

The TFI is developing software implementing the 2006 guidelines. A demonstration version for the energy sector is available from our website. We invite people to look at the software and send us their comments.

The IPCC

The main activity of the Intergovernmental Panel on Climate Change (IPCC) is to prepare at regular intervals comprehensive assessment reports about climate change, and provide methodologies for use by Parties to the UNFCCC.

For further information please contact:

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For general information on the IPCC, please see:
<http://www.ipcc.ch>

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INTERGOVERNMENTAL PANEL ON
climate change



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