

Session 5: Climate Change

UNFCCC Presentation 1

Environmental and Policy Issues

Workshop on Environment Statistics
Yaoundé, Cameroon, 5-9 December 2011

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Content

- Climate Change Convention (UNFCCC)
- Guidelines for National Communications
- Preparation and Financing of National Communications

Questions !

- *Who knows about CC related activities in her/his country?*
- *Who was involved in her/his country initial national communication?*
- *Who is involved in her/his second national communication?*

Climate Change Convention

(http://unfccc.int/essential_background/convention/background/items/2853.php)

- Objective (Article 2)

“... **stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system...**”

- Principles (Article 3)

“... **Common but differentiated responsibilities...**” (AI v.s. NAI Parties)

- Commitments (Article 4)

Article 4.1 (a) “**Develop, periodically update, publish and make available to the Conference of the Parties, in accordance with Article 12, national inventories of anthropogenic emissions by sources and removals by sinks of all greenhouse gases not controlled by the Montreal Protocol, using comparable methodologies to be agreed upon by the Conference of the Parties;**”



Guidelines for NAI National Communications

- Initial national communications (decision 10/CP.2; around 350 000 USD)

141 INCs submitted (http://unfccc.int/national_reports/non-annex_i_natcom/submitted_natcom/items/653.php)

- Second national communications (decision 17/CP.8; around 420 000 USD)

60 SNCs submitted (mostly using 17/CP.8 guidelines) (http://unfccc.int/national_reports/non-annex_i_natcom/items/2979.php)



Decision 17/CP.8

http://unfccc.int/national_reports/non-annex_i_natcom/guidelines_and_user_manual/items/2607.php

Decision 17/CP.8

Guidelines for the preparation of national communications from Parties not included in Annex I to the Convention

The Conference of the Parties,

Recalling, in particular, Article 4, paragraphs 1, 3 and 7, Article 10, paragraph 2(a) and Article 12, paragraphs 1, 5 and 7, of the Convention,

Recalling also its decisions on communications from Parties not included in Annex I to the Convention (non-Annex I Parties) and, in particular, its decisions 10/CP.2, 2/CP.4, 12/CP.4, 8/CP.5, 31/CP.7 and 32/CP.7,

Recalling further that, by its decision 8/CP.5, it had initiated a process of reviewing the guidelines for the preparation of national communications from non-Annex I Parties, with the aim of improving them,

Having in mind that, at its seventh session, it had decided¹ to continue the process of reviewing the guidelines for the preparation of national communications from non-Annex I Parties, with a view to adopting them at its eighth session,

Acknowledging that the Consultative Group of Experts on National Communications from Parties not included in Annex I to the Convention has made important contributions to the revision of the guidelines for the preparation of national communications from non-Annex I Parties,

Recognizing the important role of the Consultative Group of Experts on National Communications from Parties not included in Annex I to the Convention, in facilitating technical advice and support for the preparation of second and, where appropriate, third national communications from non-Annex I Parties, pursuant to decision xxx/CP.8,

1. Decides:

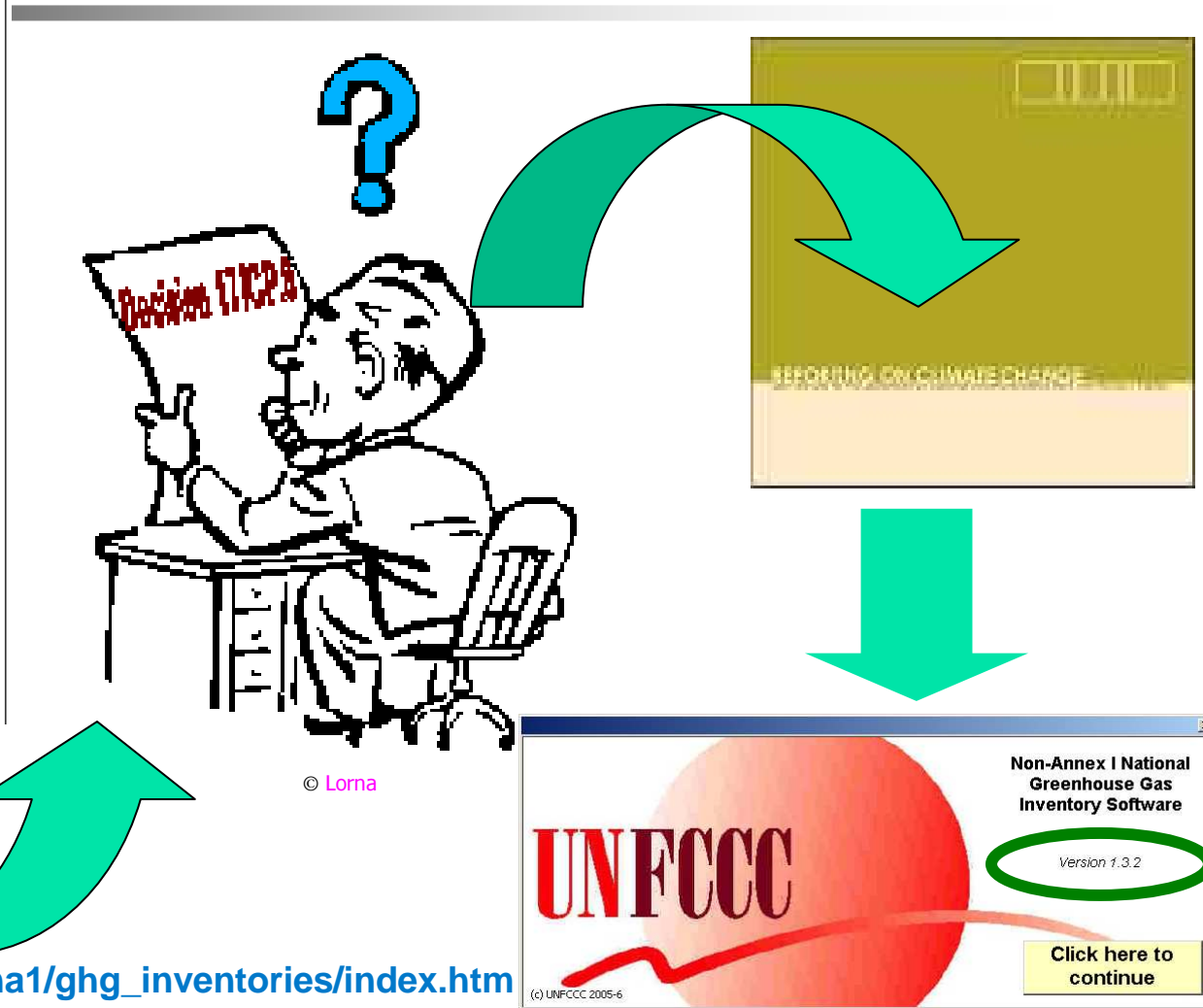
(a) That Parties not included in Annex I to the Convention (non-Annex I Parties) should use the guidelines contained in the annex to this decision for the preparation of second and, where appropriate, third national communications and, where appropriate, initial national communications, except where Parties have initiated the process of preparing second national communications and received funding under the expedited procedures or on an agreed full cost basis prior to the approval of the guidelines annexed to this decision;

(b) That, in using these guidelines, non-Annex I Parties should take into account their development priorities, objectives and national circumstances;

(c) That these guidelines should be used to provide guidance to an operating entity of the financial mechanism for funding the preparation of national communications from non-Annex I Parties;

(d) That the guidelines contained in the annex to this decision, together with the guidance to an operating entity of the financial mechanism provided in decision xxx/CP.8, should be used for the preparation of second and, where appropriate, third national communications and, where appropriate, initial national communications;

¹ Decision 32/CP.7.



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http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm

UNFCCC



UNITED NATIONS FRAMEWORK CONVENTION ON CLIMATE CHANGE

Consultative Group of Experts

(http://unfccc.int/national_reports/non-annex_i_natcom/cge/items/2608.php)

- Mandate (decision 5/CP.15)

(http://unfccc.int/national_reports/non-annex_i_natcom/cge/items/2608.php)

The objective of the CGE is to **improve the process of the preparation of the second and subsequent national communications**, by providing technical advice and support to non-Annex I Parties

CGE Training Materials

(http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm)


GHG Inventories - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm

Non Annex I Training Package (CD ROM) [Acknowledgements](#) | [Contact us](#)

 **GHG Inventories**

GHG Inventories

Vulnerability & Adaptation

Mitigation Assessments

The materials contained in this CGE training package, on national greenhouse gas (GHG) inventories, intends to provide the reader with the best possible synthesis of all the Intergovernmental Panel on Climate Change (IPCC) methodologies and tools available which could be of use for non-Annex I Parties and experts in the process of preparation of their national GHG inventories.

The present training package is directly designed to address the UNFCCC guidelines for the preparation of national communications from Parties not included in Annex I to the Convention ([decision 17/CP.8](#)), and is in no case intended to replace any of the IPCC methodologies or tools it is referring to in its various modules.

For further detail and explanation, the reader is therefore always encouraged to go back to the original IPCC documents or tools referred to.

- **Energy**
 - **Fuel combustion**
 - **Presentation**
 - [Fuel combustion](#)
 - **Handbook**
 - [Combustion training](#)
 - **Quiz**
 - [Energy quiz 1 test](#)
 - [Energy quiz 1 key](#)
 - **Fugitives**
 - **Presentation**
 - [Fugitives](#)
 - **Handbook**
 - [Fugitives training](#)
 - **Quiz**
 - [Fugitives quiz 1 test](#)
 - [Fugitives quiz 1 key](#)
 - [Fugitives quiz 2 test](#)
 - [Fugitives quiz 2 key](#)
- **Industrial processes**
 - **Presentation**
 - [Industrial processes](#)
 - **Handbook**
 - [Industrial processes handbook](#)
 - [Annex 1 Table](#)
 - [Annex 2 Table](#)
 - [Annex 3 Table](#)
- **Agriculture**
 - **Presentations**
 - [Agriculture 1 overview](#)

Français Español

UNFCCC Software

In order to facilitate the tasks of non-Annex I Parties, the UNFCCC secretariat produced a software which incorporates all the elements a national GHG inventory could contain according to decision 17/CP.8. It is hoped that this software is flexible enough to accommodate the great variety of needs and constraints faced by non-Annex I Parties.

New version 1.3.2 of software and manual available as of January 2007

The software has been updated and users can now install the new version. If you have installed version 1.3.1 of the software, you should replace all the module files

http://unfccc.int/resource/cd_roms/na1/acknowledgements.htm Local intranet



Preparation and Financing of National communications

Submission of second, and where appropriate, third national communications from NAI Parties (decision 8/CP.11)

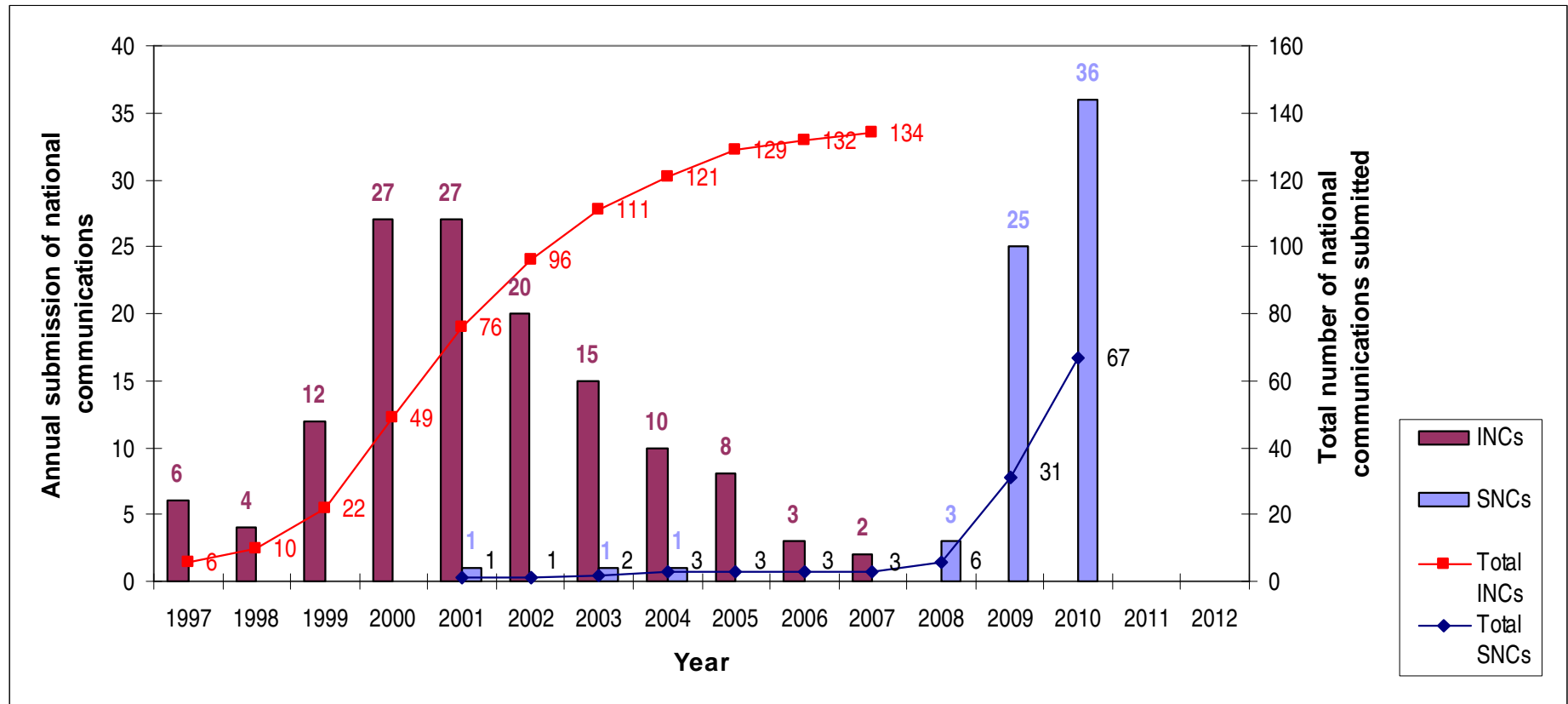
(<http://unfccc.int/resource/docs/2005/cop11/eng/05a01.pdf#page=17>)

- ... prepare **project proposals**, even in advance of substantially completing their previous NCs, in order **to avoid a lack of continuity** in project financing
- ... NAIP **should** apply for the financing of their subsequent NCs at any time **between 3 to 5 years** of the initial disbursement of funds for the actual ... NCs
- Shall make all efforts to **submit** their 2nd NC (or when appropriate 3rd) **within 4 years** of the disbursement of financial resources
- May use an **extension of up to 1 year** (after having informed the secretariat), but this shall not imply additional financial resources

Preparation and Financing of National communications (*Cont.*)

- Need to be better prepared (more NCs expected over a shorter period)
- Still big gaps in basic Activity Data
- Need to generate appropriate data on a continuous basis

Status of submission of Initial (INCs) and Second National Communications (SNCs) projected submissions of SNC



Source: FCCC/SBI/2007/10/Add.1



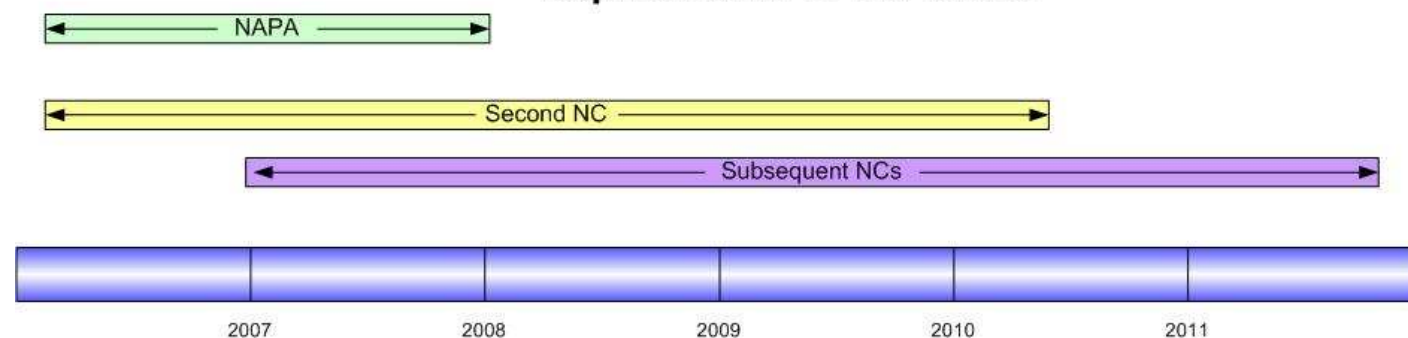
Global Environment Facility (GEF)

(<http://www.thegef.org>)

- Operational procedures for the expedited financing of national communications from NAI Parties (NC2: 405 000 + 15 000 USD; NC3: 500,000 USD)
- Full cycle projects (possibility of obtaining several million dollars)
(<http://www.thegef.org/interior.aspx?id=17124>)

Important Opportunities in Preparing Second National Communication

Schematic representation of possible support requirements in the future



CGE

- Training in V&A
- Training in GHG inventories
- Training in Mitigation
- Training in NC Guidelines
- Improvement of Guidelines
- CB & O monitoring

NCSP

- Funding for NCs
- Specialized training
- Scenario development and provision
- Support for V&A tools

New Support Requirements

- Quality assurance/Quality control in outputs
- Timing of preparation and submission, as a function of timely fund disbursements
- Development of Implementation strategies for adaptation
- GHG databases and systems
- CB & O monitoring
- Climate scenarios and tools to support implementation of adaptation
- Improvement of guidelines
- Identification of technical & other problems
- Monitoring multi- and bilateral funding
- Integration of CC into National Planning
- Others ...

UNFCCC Presentation 2

International/Regional Data Sources for the Indicators

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Content

- Intergovernmental Panel on Climate Change (IPCC)
- Other Major Data Sources
(***Covered by other presenters!***)
- UNFCCC

IPCC

(<http://www.ipcc.ch>)

- NGGIP (National Greenhouse Gas Inventory Programme)
(<http://www.ipcc-nggip.iges.or.jp/index.html>)



INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE
NATIONAL GREENHOUSE GAS INVENTORIES PROGRAMME

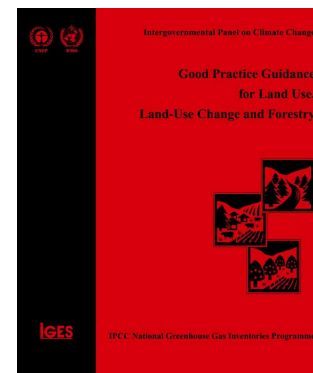
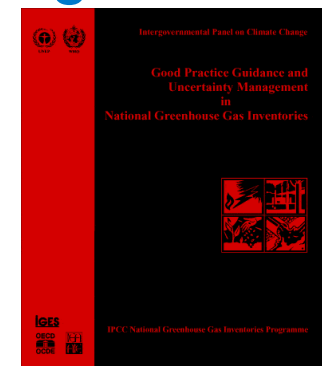
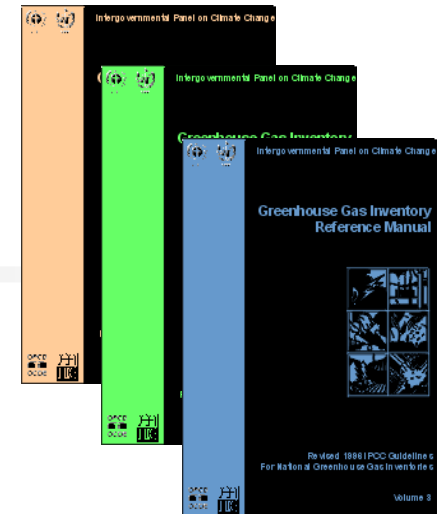


Covered by national communications guidelines (decision 17/CP.8) (http://unfccc.int/national_reports/non-annex_i_natcom/guidelines_and_user_manual/items/2607.php)



IPCC Methodologies for National Communications

- Revised 1996 Guidelines (<http://www.ipcc-nggip.iges.or.jp/public/gl/invs1.htm>)
- Good Practices Guidance and Uncertainty Management (GPG) (<http://www.ipcc-nggip.iges.or.jp/public/gp/english/>)
- GPG for LULUCF (<http://www.ipcc-nggip.iges.or.jp/public/gpoglulucf/gpoglulucf.htm>)



IPCC 2006 Guidelines

- **NOT** covered by national communications guidelines (decision 17/CP.8)
- No training available/provided
- Software available yet (but next year)
- Not adopted yet by the Conference of the Parties (COP) for use by non-Annex I Parties
- But, the new Emission Factors (EFs) could easily replace former ones

Emission Factor Database (EFDB)

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

- The EFDB:
 - Is a **library of emission factors** to assist inventory compilers who want to use higher tier methods but do not have all the measured data they would need
 - Will facilitate **sharing data/information** by inventory compilers, experts, scientists worldwide.
 - Evolves dynamically through contributions of new data from researchers, scientists, industry...
 - Provides a wide variety of emission factors and other parameters with background documentation or technical references so that users can select and use appropriate data on their own responsibility.
 - Is **communication platform** for distribution and commenting on new research and measurement data

EFDB (Cont.)

IPCC NGGIP Logged user: Not logged in

IPCC web sites

[Home](#) [Login](#) [Find EF](#) [Single Input](#) [Mini-Batch Import](#) [Documents](#) [Downloads](#) [Help](#)

Main Page Language: English OK

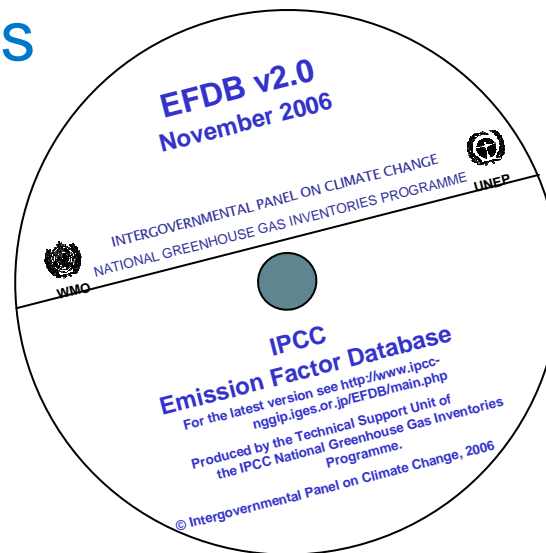
Welcome to EFDB!

All users are kindly invited to pay attention to this note. Guidance for users (as of 26 October 2002) can be downloaded (click [here](#)). The EFDB User Manual will be made available in due course.

- **Nature of EFDB:** EFDB is meant to be a recognised library, where users can find emission factors and other parameters with background documentation or technical references that can be used for estimating greenhouse gas emissions and removals. **The responsibility of using this information appropriately will always remain with the users themselves.**
- **Request for data input:** Users are encouraged to provide the EFDB with any relevant proposals on emission factors or other related parameters. If you wish to submit your data for the first time, please contact the [Technical Support Unit](#) to obtain your login name and password. Acceptance of such proposals will be subject to decisions by the EFDB Editorial Board using well-defined criteria.
- **Terminology:** EFDB is a database on various parameters to be used in calculation of anthropogenic emissions by sources and removals by sinks of greenhouse gases. It covers not only the so-called "emission factors" but also the other relevant parameters. For convenience sake, however, the term "Emission Factor" or its abbreviation "EF" is sometimes used to represent parameters in this database generally.
- **Software requirements:** It is highly recommended to use Microsoft Internet Explorer version 5.0 or higher for best performance. Alternatively Netscape Navigator version 6.0 or higher can be used. It is also recommended to have Microsoft Office 97 or higher for generating Word and Excel outputs.

EFDB (Cont.)

- Available on-line and on CD-rom
- Version 3 incorporates all the 2006 Guidelines EFs



Other Major Data Sources

Many international sources of data (*covered by other presenters!*)

- - **IEA** (focuses on CO₂ as the main gas emitted from energy activities),
- - **FAO** (FAOSTAT on-line database <http://faostat.fao.org/>), etc.
 - Top-Down (international) v.s. **Bottom-up** (national) approaches
 - **National** data are always more valuable!

UNFCCC

- GHG emissions on-line database
(http://unfccc.int/ghg_data/ghg_data_unfccc/items/4146.php)
- “Key GHG Data - 2005”
(http://unfccc.int/resource/docs/publications/key_ghg.pdf
and
http://unfccc.int/resource/docs/publications/key_ghg_cor.pdf)



UNFCCC Presentation 3

Data Collection and Compilation at National Level

Workshop on Environment Statistics
Yaoundé, Cameroon, 5-9 December 2011

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Content

- National GHG Inventories: the example of the UNFCCC GHG inventories software for NAI Parties
- Vulnerability and Adaptation: the example of NAPA from Malawi

Question !

- *Who knows the name of her/his National Focal Point for Climate Change?*
- *List of National Focal Points for Africa will be included in CD of the workshop.*

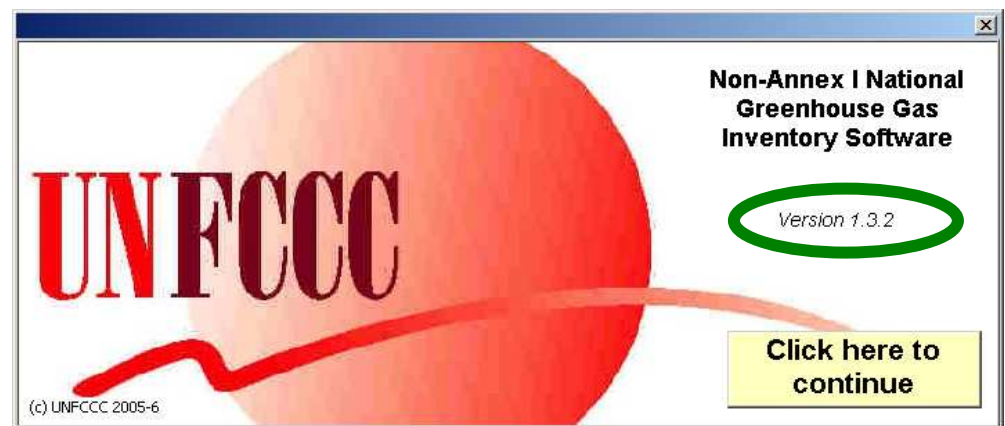
GHG Inventories

- 17/CP.8 guidelines for national communications (Year 2000, Table I and II, etc.)

- - **UNFCCC software version 1.3.2** and user manual (IPCC methodologies + national data, and methods if available)

http://unfccc.int/resource/cd_roms/na1/ghg_inventories/index.htm

- What it is
- What it does



GHG Inventories (*Cont.*)

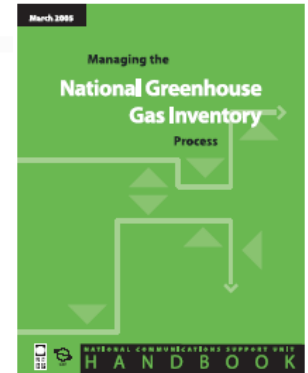
- - Crucial need for **Activity Data** (5 sectors: Energy; Industrial Processes, and Solvent Use; Agriculture; Land Use Change and Forestry; Waste)
 - Issue of confidentiality
 - Activity Data v.s. GHG emissions (which role for statistical offices?)

GHG Inventories (Cont.)

- How could statistical offices contribute to the continuous improvement of the activity data needed?
- How could the national communication process benefit to statistical offices? (Two way relationship!)
- Purpose: obtain more accurate data, in order to design more appropriate and targeted policies to better tackle Climate Change.
- How could UNFCCC collaborate better with the UNSD in future?
- UNFCCC has a general mandate for providing technical assistance to countries expressing needs (example: pilot project in Southeast Asia for developing sustainable national GHG inventories management systems)

GHG Inventories (Cont.)

- **NCSP** (National Communications Support Programme, UNDP/UNEP/GEF) (<http://ncsp.undp.org>)
- Manual on Managing the GHG Inventories Process (http://ncsp.undp.org/report_detail.cfm?Projectid=153)
- GHG Inventory Experts Network (<http://www.ghgnetwork.org/>)
 - “*Treatment*” of data submitted?
- Six Compilation and Synthesis (**C&S**) reports covering **122 INCs** (http://unfccc.int/national_reports/non-annex_i_natcom/compilation_and_synthesis_reports/items/2709.php) plus CGE examination of 12 latest INCs (to be presented at SBI 27, Bali, Indonesia, December 2007)



V&A and NAPA

- - Example of the **NAPA** (National Adaptation Programme of Action http://unfccc.int/national_reports/napa/items/2719.php) from **Malawi**
- NAPA aim at responding to “urgent and immediate needs”
 - Agriculture
 - Human health
 - Fisheries
 - Wildlife
- Water
 - Forestry
 - Human settlements
 - Coastal zones erosion/sea level rise, etc.

Conclusions

- Activity Data are very much needed for all Climate Change related activities
- Constant need to improve the quality and reliability of these data, as well as generate appropriate data for climate studies
- Statistical Offices play an important role