

IPCC Software for the 2006 Guidelines Background

Simon Eggleston, Head TFI TSU

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2006 IPCC Guidelines

- The 2006 IPCC Guidelines for National Greenhouse Gas Inventories was approved by the IPCC in 2006.
 - It updated the Revised 1996 IPCC Guidelines and two sets of Good Practice Guidance
 - It was the culmination of 2½ years efforts by over 250 experts worldwide
 - It is currently being considered by the UNFCCC for use by Annex I parties for reporting to the UNFCCC – currently Annex I Parties must use earlier guidelines
 - It is already widely used in whole or in part





"Old" 1996 Software



- The IPCC produced software implementing the Revised 1996 Guidelines
- The maintenance of this software has been taken over by the UNFCCC Secretariat
- This software

- Aims to be used by those with limited resources and experience
- ✤ Is also a valuable teaching aid
- Is based on the worksheets in the revised guidelines
- Uses MS Excel spreadsheets and macros





New Software for 2006 Guidelines

- Following the completion of the 2006 IPCC Guidelines the TFI decided to produce new software implementing the new guidelines
- An expert meeting in Doha in January 2007 considered the overall needs and design of the software
- Subsequently the Task Force Bureau and IPCC Panel agreed to proceed with the development in two phases
 - The First to produce a demonstration version for the energy sector
 - The Second to produce the complete software
- The software development was tendered and awarded to SPIRIT a.s.

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Objectives

- The objectives of the software are to:
 - Facilitate preparation of national GHG inventories according to 2006 Guidelines either for complete inventories or for separate categories or groups of categories.
 - assist in training and inventory review
 - harmonise reporting of greenhouse gas inventories
 - Archive data and complete inventories (which may consist of estimates for a number of years).





Users of software

- The primary target groups of users are:
 - Inventory compilers in all Parties to the UNFCCC with limited resources without their own inventory systems/software and who wish to apply default methods,

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- Trainers and trainees on national GHG inventory compilation,
- In addition, a range of other potential users has been identified
 - Reviewers of national inventories
 - Academics/Researchers
 - UNFCCC Secretariat
 - Project developers



Design

- While the software should emulate the worksheets it need not be spreadsheet based a database approach is used.
- It is modular it can be used for individual categories and data and results can be imported and exported
- It does not need powerful hardware
- Software should be freely distributable
- Help should be available
- Languages while the first version is in English it should be possible to add other languages

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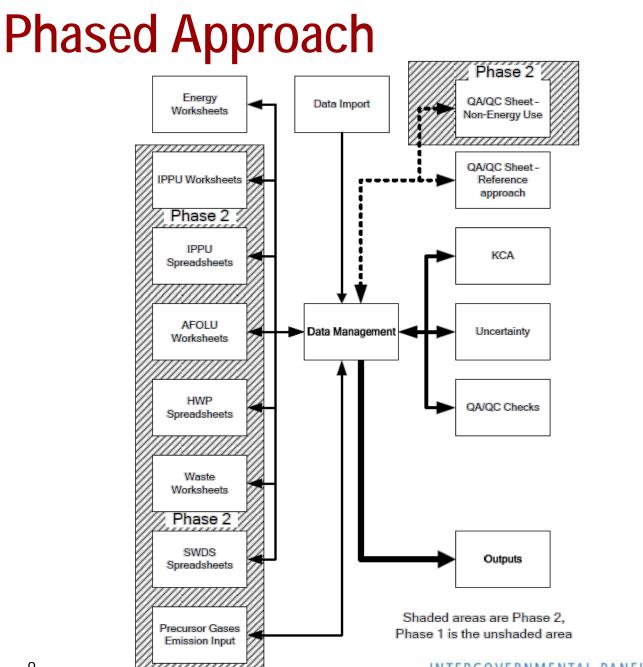
Functionality

• Worksheets where data is entered and emissions estimated

- Ability to stratify and add sub-categories
- Default emission factors from the 2006 Guidelines should be available
- Global Warming Parameters or other metrics should not be fixed
- Notation Keys as in the Guidelines should be available
- Outputs in printable tables, Excel or XML for CRF input
 All Reporting Tables available
- Key Category Analysis and Uncertainty modules
- QA/QC checks such as completeness flags
- Ability to add references and comments



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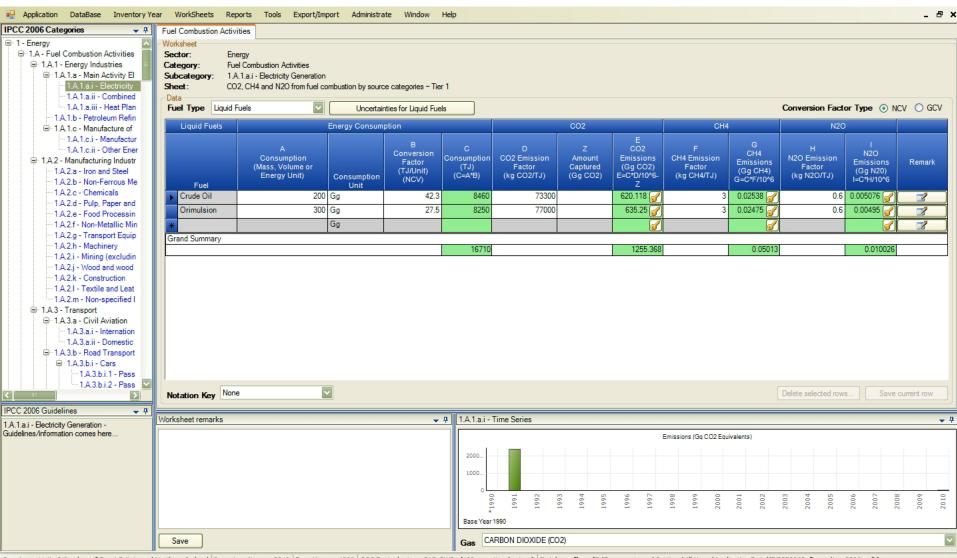
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Complex AFOLU Data Entry





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Country: United Kingdom of Great Britain and Northern Ireland Inventory Year: 2010 Base Year: 1990 CO2 Equivalents: SAR GWPs (100 year time horizon) Database file: (C:\Documents and Settings\All Users\Application Data\IPCC2006Software\ipcc2006.mdb)



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Now

- The software is being finalised
 - We encourage as many people as possible to look at it and to send us any comments, bugs etc.
 - We aim to release a complete version widely early next year
- Today we want to introduce and demonstrate the software

It is available for download and testing from: http://www.ipcc-nggip.iges.or.jp/support/support.html







Thank-you

