Supporting tools to operate the software
User manual, Guidebooks and data managers

IPCC Inventory Software Workshop, Baku

IPCC TFI-TSU

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Supporting Tools
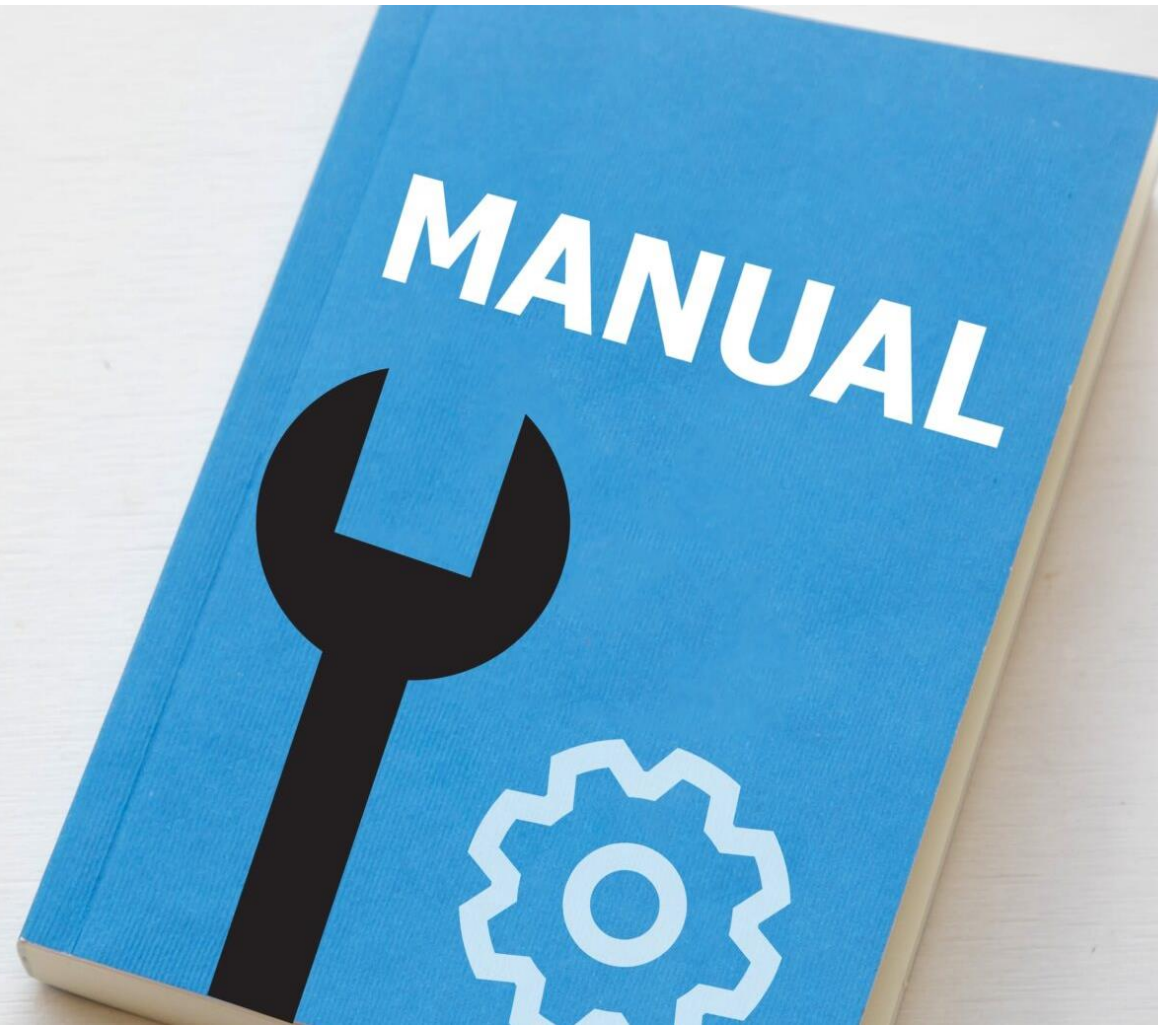
User Manual (Ver. 2.93)

Guidebooks

- Current Guidebooks available
- Guidebook Structure
- Categories Structure

Tools & Data Managers

- Fuel Manager
- F-Gas Chemicals and Blends Manager
- Livestock Manager
- Land Use and Land Representation Manager
- Waste Type Manager
- IPCC Harvested Wood Products

Helpdesk

IPCC Inventory Software User Manual

User Manual

ESSENTIAL SOFTWARE GUIDE
A comprehensive document that explains in detail **how to operate** the IPCC Inventory Software, **from managing databases to exporting results**.

OPERATIONAL QUESTIONS
Refer to the User Manual when you're **using the software for the first time** or need to **troubleshoot** how to **manage data, find features, or navigate the system**.

STEP-BY-STEP GUIDANCE
Essential for understanding the software's functionalities, with sample **screenshots** to help you navigate and utilize every feature effectively.

User Manual

MANAGING
Database and Users

- ❖ Set Inventory Preferences
- ❖ Set Global Warming Potentials
- ❖ Define Users
- ❖ Distribute Database

NAVIGATING
IPCC Inventory Software

- ❖ General Software Navigation
- ❖ Data Managers and Tools
- ❖ Export/Import and Reports

ENTERING DATA
and managing Worksheets

- ❖ Worksheet windows
- ❖ Worksheet grid
- ❖ Time Series data entry

INTEROPERABILITY
UNFCCC ETF Reporting Tool

- ❖ Creating a CRT Data Set
- ❖ Editing CRT Tables
- ❖ Managing Documentation Box
- ❖ Generate JSON

User Manual

ACCESSING THE USER MANUAL

- **In-Software Access**: Available directly through the **Help tab** within the software.

- **Online Access**: Published on the **IPCC TFI website**.

  https://www.ipcc-nggip.iges.or.jp/software/index.html

STREAMLINE SLIDE VERSION

A concise, **slide-based overview** that simplifies the key elements of the IPCC Inventory **Software User Manual** for easy reference.

LANGUAGE SUPPORT

Unofficial translations of the User Manual and Software are available in **Arabic** and **French**, courtesy of **Prof. Sidaty Ould Dah,** accessible on the IPCC TFI website.

Sectoral Guidebooks

Sectoral Guidebooks

What they are

Detailed Instructions: Step-by-step manuals designed to guide users in applying the IPCC Inventory Software for specific inventory categories.

Practical Reference: Provide practical guidance, including relevant IPCC equations, worksheet explanations, and workflow processes for data entry.

When to Use Them

Throughout Software Use: Consult them at any stage while using the Software, as they provide tailored guidance for specific inventory categories.

After the User Manual: Best consulted after becoming familiar with general software operations outlined in the User Manual.

Sectoral Guidebooks

Ongoing Development

The guidebooks are periodically revised, with version numbers to be checked by users. User feedback is crucial to their development.

Current Versions Available

❖ Energy Guidebook	*version 1.1*	*06/04/2024*
❖ IPPU Guidebook	*version 1.0*	*29/08/2024*
❖ Livestock Categories 3.A	*version 1.0*	*06/02/2024*
❖ Land Representation Guide	*version 1.2*	*06/04/2024*
❖ Waste Guidebook	*version 1.0*	*06/07/2024*
❖ UNFCCC CRT Tables Export Guide	*version 1.0*	*29/08/2024*

Sectoral Guidebooks

Documents common Structure

Introduction

- Overview of the guidebook's purpose, scope and structure

General Issues

- How to use the sector's Data Manager
- Use of multiple reporting tiers and
- Subdivision reporting
- Managing uncertainties and time series data

Sectoral Guidance

- Detailed instructions specific to each category
- Methodologies and data requirements
- Calculation approaches tailored to different types of emissions and activities

Annex I – Mapping between IPCC Inventory Software and UNFCCC ETF Reporting Tool

- How to read mapping tables
- Detailed mapping table
- Automatic Reporting of Notation Keys in the Sector

Sectoral Guidebooks

Source/Sink Categories chapters

ALL THE RELEVANT INFORMATION

INFORMATION
IPCC Guidance for the source/sink category

GHGs
Relevant GHG's for the source/sink category

IPCC EQUATIONS
a list of relevant equations from the IPCC Guidelines

SOFTWARE WORKSHEETS
a short description of the relevant Software worksheets

DETAILED PROCEDURE

CATEGORY FLOWCHART
a schematical diagram of workflow

ACTIVITY DATA INPUT
guidance on input of AD in category's worksheets

EMISSION FACTOR INPUT
guidance on input of EFs in category's worksheets

RESULTS
any issues related to the results of estimation

Sectoral Guidebooks

Source/Sink Categories chapters

Systematic Guidance
Each chapter offers a **step-by-step process**, ensuring consistency and accuracy in emissions estimation.

Clear Pathways
Methodological paths are outlined clearly, with **flowcharts visualizing key steps** for ease of use.
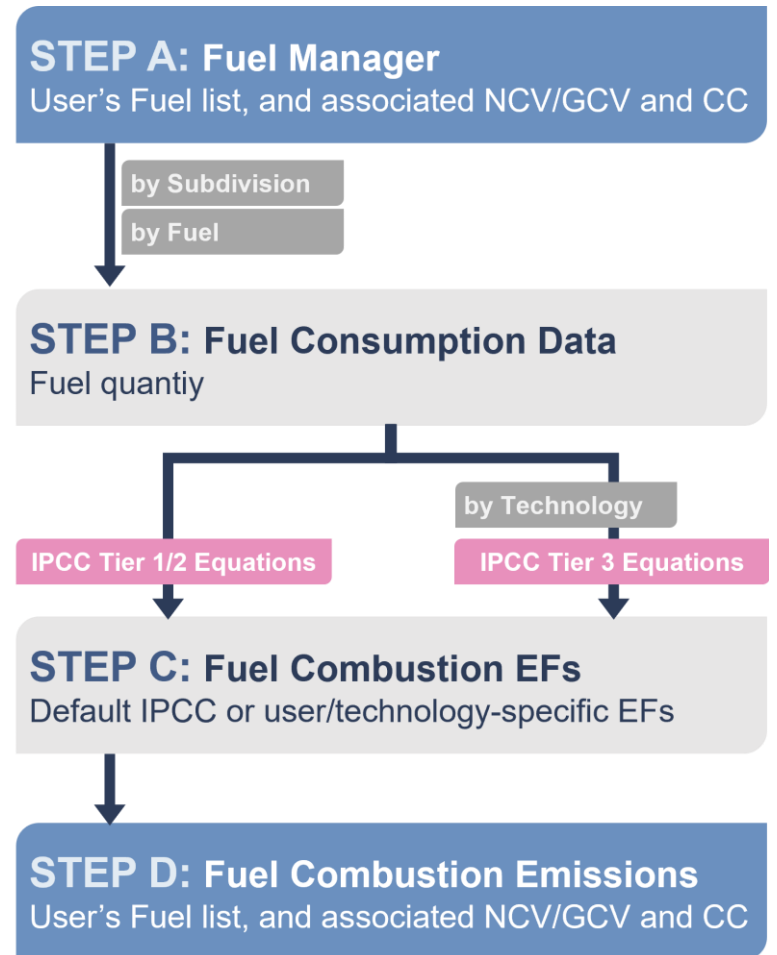
Organized Data Management
Chapters guide users in managing and **entering essential data** across all source/sink categories.

Flexibility with Precision
The approach **supports various levels of detail**, allowing for the use of specific data or **higher tier methods** where available.
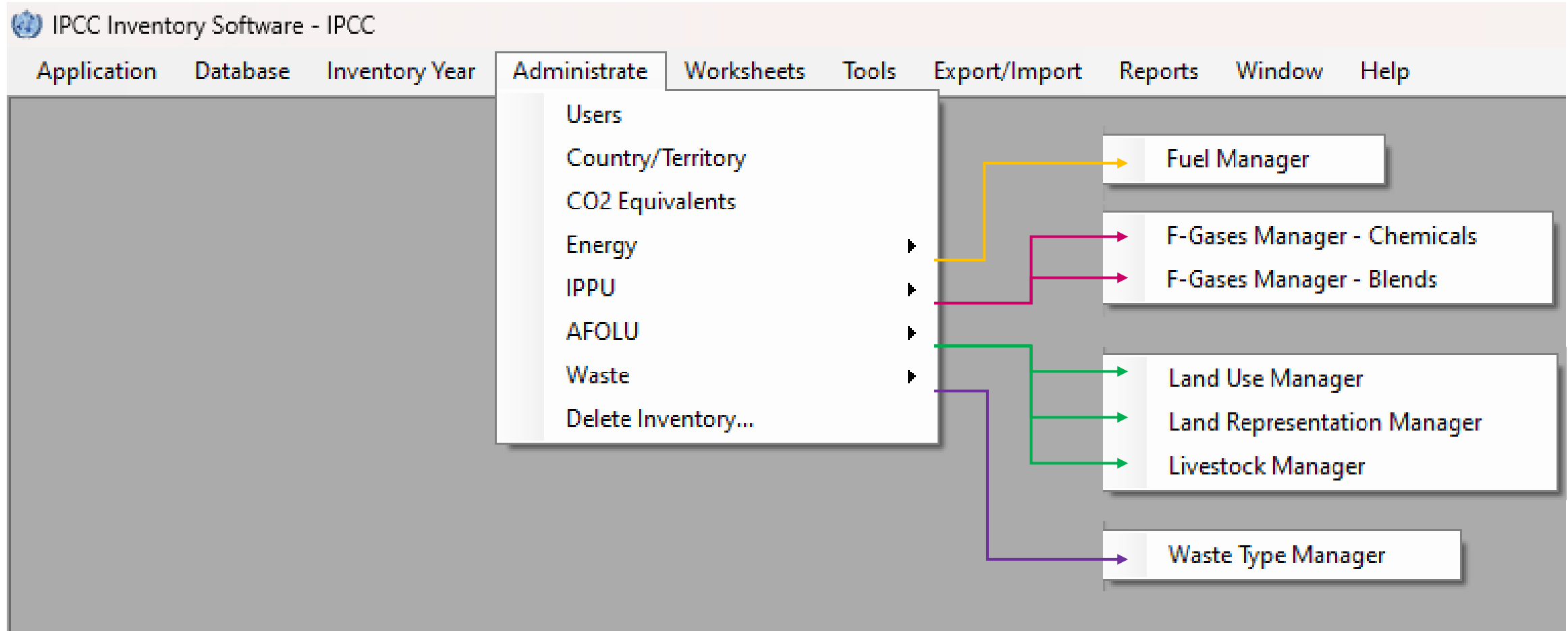
EXAMPLE OF CATEGORY FLOWCHART

Tools & Data Managers

Software Data Managers

In-built data tools

Software Data Managers
In-built data tools

FUEL MANAGER

is a tool that stores data on the **carbon content** and **calorific value of fuels** used in the National GHG Inventory. It includes both **IPCC default fuels** and **user-specific fuels**.

Guidance on Energy Sector Users' Guidebook

F-GAS MANAGER
CHEMICALS & BLENDS

The Chemicals manager stores a **list of F-gases and user-specific chemicals**, along with their Global Warming Potentials, allowing users to **select those to be reported** in the NGHGI.

The Blends manager stores a list of **chemical blends**, including **user-specific blends** containing at least one F-gas, from which users **select those to be considered in estimations**.

Guidance on IPPU Sector Users' Guidebook

Software Data Managers

In-built data tools

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LIVESTOCK MANAGER

is a tool used to **stratify livestock** into subpopulations for accurate GHG estimation. It organizes information on **geographical zones**, **livestock characteristics**, and **manure management systems**.

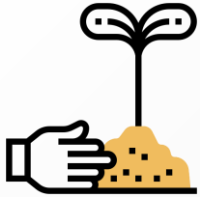*Guidance on Livestock Categories 3.A Users' Guidebook*

WASTE TYPE MANAGER

organizes data on **solid waste by category and type**, allowing the addition of user-defined waste types and providing **waste type parameters** used by the Software to calculate GHG emissions

Guidance on Waste Sector Users' Guidebook

Software Data Managers
In-built data tools

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LAND USE MANAGER

characterizes **all land** subdivisions within the six **IPCC land categories**, further stratified into 12 sub-categories. **Each category has its own parameters**, with the accompanying guidebook offering step-by-step guidance.

Guidance on Land Representation Users' Guidebook

LAND REPRESENTATION MANAGER

stratifies the territory into regions, assigning each an **IPCC approach (1, 2, or 3) for land representation**. Within regions, land is further stratified into units based on biophysical and socio-economic variables, with areas assigned and IPCC methods selected to **calculate carbon-stock-change.**

Guidance on Land Representation Users' Guidebook

Software Data Managers

Data Upload

HARVEST WOOD PRODUCTS - TOOL

The Harvested Wood Products tool **retrieves** the **complete set of HWP data from FAOSTAT** and compiles it for **upload into the IPCC Inventory Software**.

Can be downloaded from the IPCC-TFI website
Instructions on the first spreadsheet

Help Desk Email

Help Desk Email

Email: ipcc-software@iges.or.jp

- Feedback on **areas of improvement**
- **Errors and Bugs** identified
- **Questions** related to the software
- Problems encountered during use of the Software
- Issues with software **functionalities**

Key Takeaways

- The software **provides a robust set of support tools** to guide users through the estimation and reporting process.

- Detailed **USER MANUAL and SECTOR GUIDEBOOKS simplify the software's use**, making it accessible and user-friendly.

- **DATA MANAGERS** streamline data entry and management, **reducing manual effort and errors**.

- **Comprehensive support** ensures that users can navigate and apply the software's functionalities

THANK YOU
FOR YOUR ATTENTION

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