Version 2.83 of the IPCC Inventory Software and current development plans

IPCC TFI Side Event

Sharm el-Sheikh - Climate Change Conference

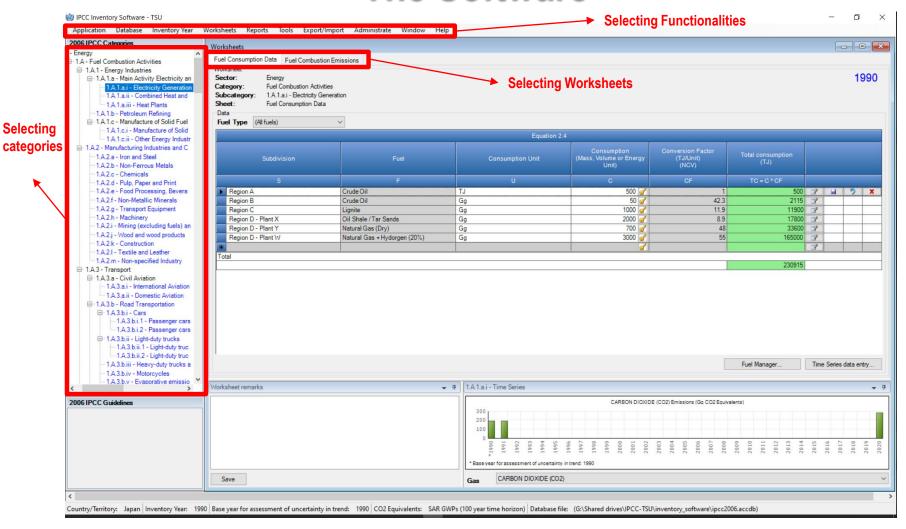UNFCCC COP27

November 2022

ipcc

INTERGOVERNMENTAL PANEL ON climate change

WMO   UNEP

Outline

➢ **The Software**

   ✓ **Shape**

   ✓ **Functionalities**

➢ **The Version 2.83**

   ✓ **Main features**

   ✓ **Work in progress**

   ✓ **Supporting tools**

   ✓ **Downloading and testing**

➢ **TFI TSU support to users**

The Software

> **Free to use**

Software Functions

Administration functions:
Country, Users, Years

Contains default data

QA/QC:
Uncertainty analysis, KCA, Reference method

Worksheets for data entry

Data Managers:
*Fuel
*Land Representation
* Land Use
*Livestock

Data Export and Import

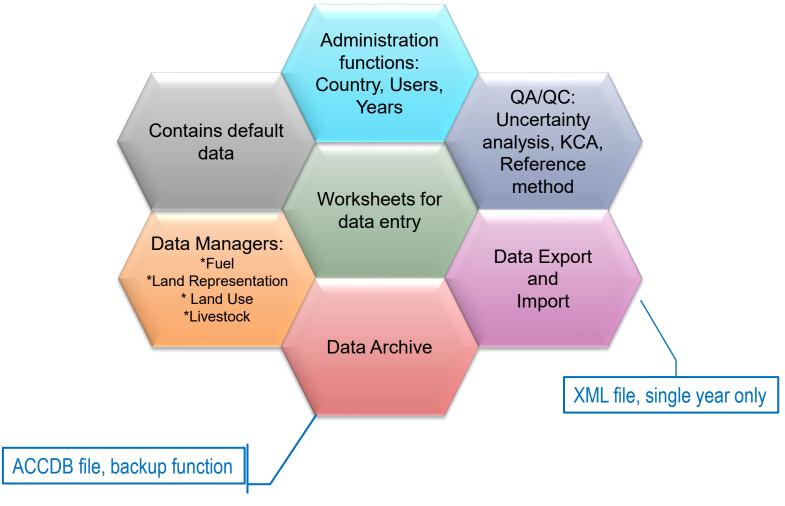Data Archive

XML file, single year only

ACCDB file, backup function

➢ MSAccess *(ACE OLEDB 12)* for WindowsOS
➢ Microsoft .NET Framework 4.6.2

Version 2.83

➢ current **version 2.83 main features**

  ✓ implements **all IPCC Tiers and Approaches** to estimate GHG emissions/removals, as provided in the 2006 IPCC Guidelines and its 2013 Wetlands Supplement

  ✓ allows, in each equation, to **input user-specific values for EFs and parameters**

  ✓ allows **subnational level of reporting**

  ✓ can be used for the whole inventory or just individual categories

  ✓ allows different sectors to be developed simultaneously

  ✓ allows different Tier-worksheets to be used altogether within a category

Ongoing work

➢ **Paris Agreement requirements**

 ✓ **AR5 GWP100**

 ✓ **Indirect CO_2 emissions**

 ✓ **(memo item) Indirect N_2O emissions**

 ✓ **Interoperability with UNFCCC reporting tool for CRTs (5/CMA.3)**

➢ **Other**

 ✓ **Notation Keys**

 ✓ **Time series export/import**

 ✓ **Supporting tools**

Supporting tools

➢ **Excel-based tool for data upload in the IPCC Inventory Software**

    ✓ **Harvested Wood Products**

    ✓ **Land Representation (mulitple Regions, all Approaches)**

➢ **Other**

    ✓ **User Guidebook for each sector (step-by-step instructions)**

    ✓ **Land representation Adds-on:**

        1. **based on wall-to-wall data collection and analysis (maps)**
           Under development by FAO SEPAL Team

        2. **based on sampling data collection and analysis (inventories)**
           Under development through FAO-COLLECT EARTH customization

Future work

➢ **Uncertainty Analysis, Approach 2**

➢ **Key Category Analysis, Approach 2**

➢ **Multiple users at category level**
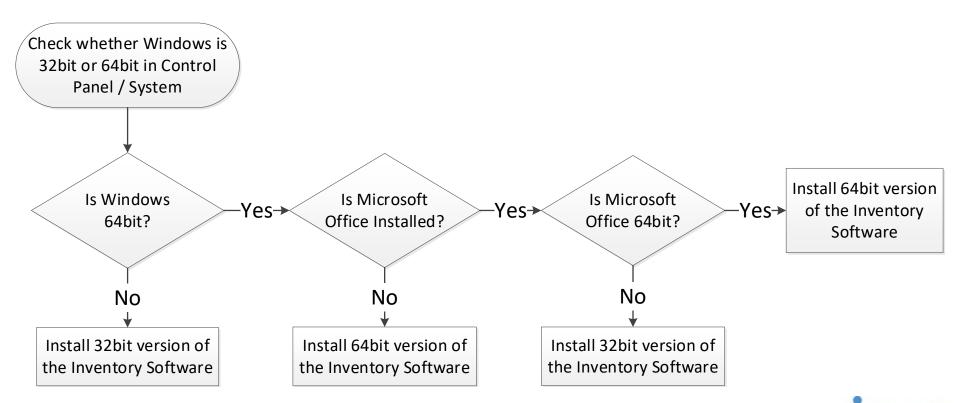
➢ **Interconnection with the EFDB**

Downloading the file of Version 2.83

Version 2.83 of the IPCC Inventory Software comes with 2 alternative installation packages –i.e. **64**bit vs **32**bit–.
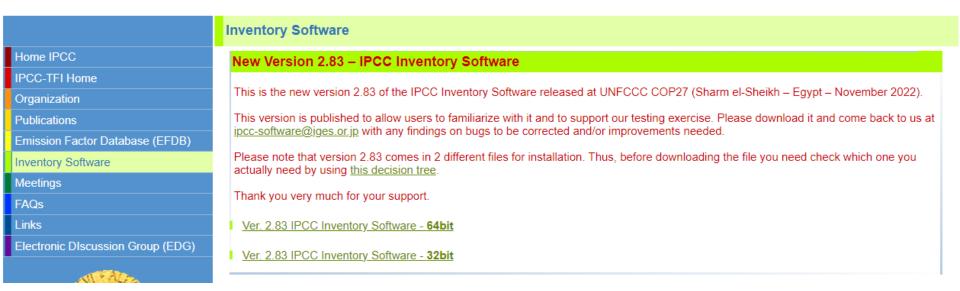
To select the appropriate file users shall follow the below decision tree:

Download it at *https://www.ipcc-nggip.iges.or.jp/software/index.html*

Inventory Software

New Version 2.83 – IPCC Inventory Software

This is the new version 2.83 of the IPCC Inventory Software released at UNFCCC COP27 (Sharm el-Sheikh – Egypt – November 2022).

This version is published to allow users to familiarize with it and to support our testing exercise. Please download it and come back to us at ipcc-software@iges.or.jp with any findings on bugs to be corrected and/or improvements needed.

Please note that version 2.83 comes in 2 different files for installation. Thus, before downloading the file you need check which one you actually need by using this decision tree.

Thank you very much for your support.

- Ver. 2.83 IPCC Inventory Software - **64bit**
- Ver. 2.83 IPCC Inventory Software - **32bit**

In coming months, according to the software development plan as well as to feedback from testing, new versions will be released until the work on interoperability is completed

Please support us through testing and reporting your findings at *ipcc-software@iges.or.jp*

Support

TFI TSU is supporting the IPCC Inventory Software

➢ **User Manual**

➢ **Help Desk -** *E-mail* ipcc-software@iges.or.jp

➢ **Pool of voluntary testers**, to support software development and use

➢ **Cooperation** in the **UNFCCC training workshops** on the use of the IPPC Inventory Software

➢ **Annual meeting on feedback from software users**, including issues where support is needed or a software improvements is envisaged

   next year focus on IPPU & Waste sectors and interoperability

In the 7th IPCC assessment cycle (from July 2023) the plan and support may be subject to changes, depending on consideration by the IPCC and the new Bureau of the Task Force on National Greenhouse Gas Inventories

Thank you

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

ipcc-software@iges.or.jp

ipcc

INTERGOVERNMENTAL PANEL ON climate change

WMO UNEP