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Workshop on Enhanced Transparency Framework under the Paris Agreement Software Installation Essentials: Pacific Region

Venue: Crown Beach Resort & Spa, Rarotonga, Cook Islands Date: 25-28 March 2025

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Overview of presentation



- Downloading the IPCC Inventory Software installation file
- Installing the IPCC Inventory Software
- First Run
- Creating a new database
- IPCC Software and Paris Agreement
- Architecture





Downloading the IPCC Inventory Software 1/6

- Where to find the official software
- How to get the latest version
- Choosing the installation file

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Downloading the IPCC Inventory Software -2/6

- The IPCC Inventory Software can be downloaded exclusively from the Task Force on National Greenhouse Gas Inventories website: <u>https://www.ipcc-nggip.iges.or.jp/software/index.html</u>
- The IPCC TFI TSU ensures that the latest version of the software is always available for download.
- The Software has two different installation files, depending on the operating system: one for 32bit systems and another for 64-bit systems.
 - To ensure **compatibility** between the *Software* and the operating system.
 - Although there are two different installation files, the **Software version that is installed is the same.**
 - Therefore, users with the same *Software* version, whether on 32-bit or 64-bit systems, can work on the same database without any issues.







Downloading the IPCC Inventory Software 3/6



When you visit the website to download the installation file, you are faced with an initial question: "Which file should I download?"

Inventory Software

New Version 2.93 – IPCC Inventory Software

This is the new version 2.93 of the IPCC Inventory Software released on 14 August, 2024.

Ver. 2.93 IPCC Inventory Software - 64bit

Ver. 2.93 IPCC Inventory Software - 32bit

To find out which installation file to download, it is necessary to understand which versions of Windows operating system and MS Office (if any) are installed. These three steps should be followed:

Step 1 – Determine which version of Windows OS is installed on your computer.

Step 2 – Determine which version of MS Office is installed on your computer, if any.

Step 3 – Use the "**IPCC Inventory Software Setup Type Decision Chart**" to find out which installation file to download.



Downloading the IPCC Inventory Software 4/6



To check whether you have a 32-bit or 64-bit version of Windows installed, follow these steps:

- 1. Press Win + R to open the Run dialog window.
- 2. Type msinfo32 and press Enter.
- 3. Look for the "System Type" entry:
 - If it shows x64-based PC, your Windows is a 64-bit version.
 - If it shows x86-based PC, your Windows is a 32-bit version.

For windows 10 and 11 this information can also be found under Settings>System>About.



回 Run	×	:
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
<u>O</u> pen:	msinfo32 ~	
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File Edit View Help					
System Summary	Item	Value			
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Downloading the IPCC Inventory Software 5/6



Step 2 – Determine version of MS Office

To check whether you have a 32-bit or 64-bit version of MS Office installed, follow these steps:

- 1. Open any Office application: such as Word, Excel, or PowerPoint.
- 2. Click on File in the top-left corner.
- 3. Click on Account. If you don't see Account, click Help.
- 4. Click on About [Application Name].
- 5. In the About window, you will see the version information, including whether it is 32-bit or 64-bit.

Steps suitable for Office 2013, Office 2016, Office 2019, Office 2021, and Microsoft 365.

P	roduct Info	rmation
	M	icrosoft
s	ubscription	Product for
N	/licrosoft	365 Apps for business
Tł	his product co	ntains
	1 🚺 😰 🧧	🖥 🚳 🙆 🦉
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	? About Word	About Word Learn more about Word, Support, Product ID, and Copyright information. Version 2406 (Build 17726.20160 Click-to-Run) Current Channel
	What's New	What's New See the most recently installed updates.

Microsoft®	Word for Mi	crosoft 365 MS	O (Version 2406	5 Build 16.0.177	/26.20078) 64-b
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Session ID:					



Downloading the IPCC Inventory Software 6/6



Step 3 – Use the IPCC Inventory Software Setup Type Decision Chart



Installing the IPCC Inventory Software

- The IPCC Inventory Software installation file is an executable that opens an **InstallShield Wizard**.
- Follow the usual installation steps by clicking 'Next' and 'Install.'
- Be sure to read the provided information before proceeding and choose the location where the *Software* will be installed.
- Please note that administrative permissions are required to install the Software. If you do not have these permissions, contact your institution's IT department.
- It is also important to note that the *Software* only runs on the **Windows** operating system.





First Run



- Opening a new database
- Setting a Superuser
- Choose Country/Territory
- Create a new Inventory Year

First Run – New Database, New Superuser



The first run of the *Software* requires setting the **Superuser** of the first **Database** that is going to be opened. The **Superuser:**

- \checkmark has full control over the application.
- \checkmark is responsible for defining additional users.

Nevertheless, you can also open databases set up by others, for which you are not the Superuser.

When setting up an NGHGI that is to be compiled by more than one expert, the first step for using the *Software* is to identify the **Superuser**, usually the NGHGI head. The **Superuser** is the one that shall open and set up the NGHGI database with their app and then share it with other users.



First Run – Set Superuser login and password

On the **first run**, the application displays its welcome window, where you can enter the Superuser's **login** (username) and **password** for the database that the application will set up.

Important!

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- When setting YOUR Password always set YOUR Password Hint too. It is also highly recommended you take note of your password and store it in a safe place. The Software does not have a mechanism to restore your password if you lose or forget your password, this means that you may no longer access your database.
- The Password applies to the database, not to the Software. The Software can manage different databases with different passwords.

IPCC 2006	
Welcome to 2006	IPCC Software for National Greenhouse Gas Inventories
The ap	oplication is being run for the first time.
It is necessary to define a application and is responsib	superuser. Superuser has full control over database and le for defining and managing additional users working with this instance of application.
Please, supply sup	eruser login name and password in the textboxes
Login	
Password	
Confirm Password	
Password hint	
ОК	Cancel



First Run – Choose Country/Territory



In this step it is necessary to choose the desired Region and Country/Territory.

The country is relevant where the default EFs and other parameters are country-specific and will ensure that the proper defaults are prepopulated (e.g. for AFOLU and Waste worksheets).

		×
C	hoose Country/Territory	
Region	World	~
Country/Territory	World	~
	OK Ca	incel

Notes:

- When you export and import XML files into the Software, the country codes must match.
- This country list is based on the UN list, which is available at http://unstats.un.org/unsd/methods/m49/ (Geographic Regions).
- The country selection applies to the database, not to the *Software*. The *Software* can manage different databases of different countries



First Run – Create new Inventory Year

In this step it is necessary to create the initial **Inventory Year**.

In this initial step, you will "Create empty inventory year" and select a year from the drop down.

When you create future inventory years, you will also have the option to create the inventory year and copy data from a previous inventory year.

After creating the Inventory Year, the Software is successfully initialized and prepared for use or for further addition/refining of user settings.

New inventory	
Crea	te new Inventory Year
New Inventory Year	1990
Create empty inventor Copy data from invent	y year ory year v
Create	Cancel

Notes:

- t is recommended to start with the first year in your time series and build future inventory years on the previous year(s). When building the land representation, you MUST start with the first year of the time series. For further information, see the Land Representation Guidebook.
- The Inventory Year selection applies to the database, not to the Software, when opening a new database a different year can be selected. I





Creating a new Database



- Initializing a new database
- Blank database replication

Opening the database for the first time

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Initializing a new database (1/x)



The IPCC Inventory Software enables users to work with multiple databases.

- Once a user completes the Software First Run, a database with specific settings and established access credentials for a superuser will have been created. However, if the user wishes, other databases with different settings can be produced.
- For each new database, a Superuser Login and Password must be set. The Superuser Login and Password can be different for each new database.

When creating a new database, please consider the following:

- The database must have a **valid structure** for the IPCC Inventory Software.
- Therefore, the process should begin with a blank version of the IPCC Inventory Software database.
- A blank database is one that has <u>never been opened</u>, allowing it to be initialized with a new login and password.

The next slides will guide you through the steps to create a new database for the IPCC Inventory Software.



Initializing a new database (2/x)



When IPCC Inventory Software is installed on a computer, a folder containing 3 databases is also created:

- ipcc2006 will be used during the "First Run"
- ipcc2006_blank blank database
- **Ipcc2006_dummy** database with dummy data pre-filled

The **ipcc2006_blank_vxxx.accdb file** contains a blank database with a valid structure, that has never been opened, allowing it to be initialized with a new login and password.

As soon as a blank database is opened and a superuser is defined, it ceases to be a blank database and **can no longer be used to start a new database**.

For this reason, **a copy of the blank database** must be used to ensure that the user **can always initialize a new database**.



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	AD	ipcc2006_	blank_v2	92.accdb	0	Microsoft	Access Da	atabase	22	2,492 KB	
1	AD	ipcc2006_	dummy_	v292.acc	db	Microsoft	Access Da	atabase	24	4,172 KB	
	AD	ipcc2006_	translatio	ns.accd	b	Microsoft	Access Da	atabase	1	,124 KB	
		trans_mn	g_langua	ges.accd	lb	Microsoft	Access Da	atabase		512 KB	
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Initializing a new database (3/x)



Making a copy of the Blank Database

- 1. Open the folder @ <u>C:\ProgramData\IPCC2006Software</u>.
- 2. The folder contains a blank* database, as **ipcc2006_blank_v296.accdb**.
- 3. Make a copy and preferably save it in the same folder by renaming it according to the use needed:
 - 3.1 You can select the file and copy it using Ctrl+C, then pasting using Ctrl+V, or
 - 3.2 You can "right-click" on the file and select Copy, and then right-click" on the folder and select Paste.
 - 3.3 You can then rename the copied file.

Having completed this procedure, the initialization of the new database is done in the IPCC Inventory Software.





Opening a database for the first time



IN 🎧

When a new database is opened for the first time in the IPCC Inventory Software, it is necessary to:

- Set Superuser login and password
- Choose Country/Territory
- Create new Inventory Year

Similar precautions and actions as taken during the 'First Run' apply.



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Welcome	e to IPCC Inventory Software
The ap	plication is being run for the first time.
It is necessary to define s application and is responsib	uperuser. Superuser has full control over database and le for defining and managing additional users working with this instance of application.
Please, supply sup	eruser login name and password in the textboxes
Login	1
Password	
Confirm Password	
Password hint	
ОК	Cancel



			×
Crea	te new Invento	ory Year	
New Inventory Year	1990	~	
Create empty inventor	y year		
Copy data from invent	ory year		~
Create		C	Cancel

Database settings - Preferences







Installing latest version of the Software



Install version 2.96 of the Software

- 1. Visit the TFI website https://www.ipcc-nggip.iges.or.jp/software/index.html
- 2. Identify the appropriate installation file for your computer.
- 3. Download version 2.96 of the IPCC Inventory Software.
- 4. Install it.
- 5. Open it and do the First Run.







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Thank you for your attention!

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IPCC Inventory Software & Paris Agreement Reporting

International reporting requirements

IPCC Inventory Software as a Tool

- ✓ Countries to submit a Biennial Transparency Report (BTR), including the NGHGI and its CRTs (Common Reporting Tables).
- ✓ Reporting must follow the Modalities, Procedures and Guidelines (MPGs) (decision 18/CMA.1), and so be based on the <u>2006 IPCC Guidelines</u>

- ✓ Decision 5/CMA.3 mandates the UNFCCC secretariat to develop reporting tools, including for CRTs.
- ✓ Decision 5/CMA.3 requests the UNFCCC secretariat to facilitate interoperability with the IPCC Inventory Software and invites the IPCC to cooperate



IPCC Inventory Software & Paris Agreement Reporting



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Architecture

environment



Architecture



programme

- MSAccess (ACE OLEDB 12) for WindowsOS
 - > ACCDB file, backup function
- Microsoft .NET Framework 4.6.2

Password protected **NEVER FORGET PASSWORD!**

Example of a Worksheet-1





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Example of a worksheet -2





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2006 IPCC Categories Navigation Window (tree)



The worksheets relevant to the selected IPCC Category will be displayed in the main working area on the right.

Worksheets are available for all IPCC categories that are highlighted in blue, magenta and lilac.

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Country/Territory: World Inventory Year: 1990 Base ye

Press 主 to open a subcategory

Blue highlighted categories are from the 2006 IPCC Guidelines

Magenta highlighted categories are from the 2019 Refinement

Lilac highlighted categories are from the Wetlands Supplement

Clicking on the **Black** "Sector/ Subsector" level shows the CO₂e time series graph of the "Sector/ Sub-sector".

Import IPCC JSON file into ETF Reporting Tool



- 1. Select 'Upload a file"
- 2. Drag and drop or upload JSON file from previous step
- 3. You will be prompted to enter version settings:-Submission year
 - -For developing countries, if you are applying flexibilities for time series/latest year -Sector-specific selections

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Quality Control Data Entry



programme

 Use of the IPCC JSON file is a means of data input into the ETF Reporting Tool. Users can check all data input grids and reporting tables in the ETF Reporting Tool.

CLIMATE TRANSPARE

- Users should quality control their imported IPCC data prior to submission.
- Note: The implied emission factors will be calculated here; they were not shown in the IPCC Inventory Software

Submit GHG Inventory to UNFCCC and start preparing for next submission





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Remember: The ETF Reporting tool is the official tool TO BE USED for submission of data to the UNFCCC to meet reporting obligations under the Paris Agreement.

And...with the inventory you have created in the IPCC Inventory Software, you are well prepared to build on it for your next BTR GHG inventory submission.

Thus... helping build a sustainable GHG inventory system.