

Introduction to the tools and software available for facilitating reporting

16 – 19 April 2024
Belize

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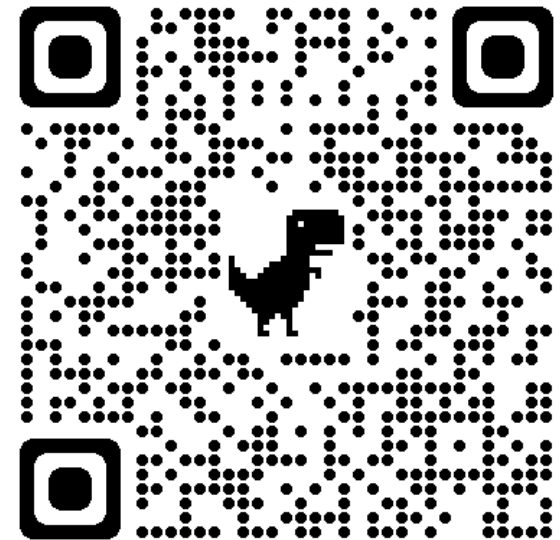
National GHG Inventory can be prepared by using

IPCC Inventory Software

- The IPCC Inventory Software implements the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. It can also be used for reporting under the 1996 IPCC Guidelines
- It allows countries to utilize the improvements in the methodologies and default values since 1996
- The IPCC launched the IPCC Inventory Software in 2012
- Supported by the UNFCCC secretariat and the Technical Support Unit of the IPCC Task Force on National Greenhouse Gas Inventories.
- The latest officially published version is available from: <http://www.ipcc-nggip.iges.or.jp/software/index.html>

[Go to the IPCC website to download the software:](http://www.ipcc-nggip.iges.or.jp/software/index.html)

<http://www.ipcc-nggip.iges.or.jp/software/index.html>



IPCC Software

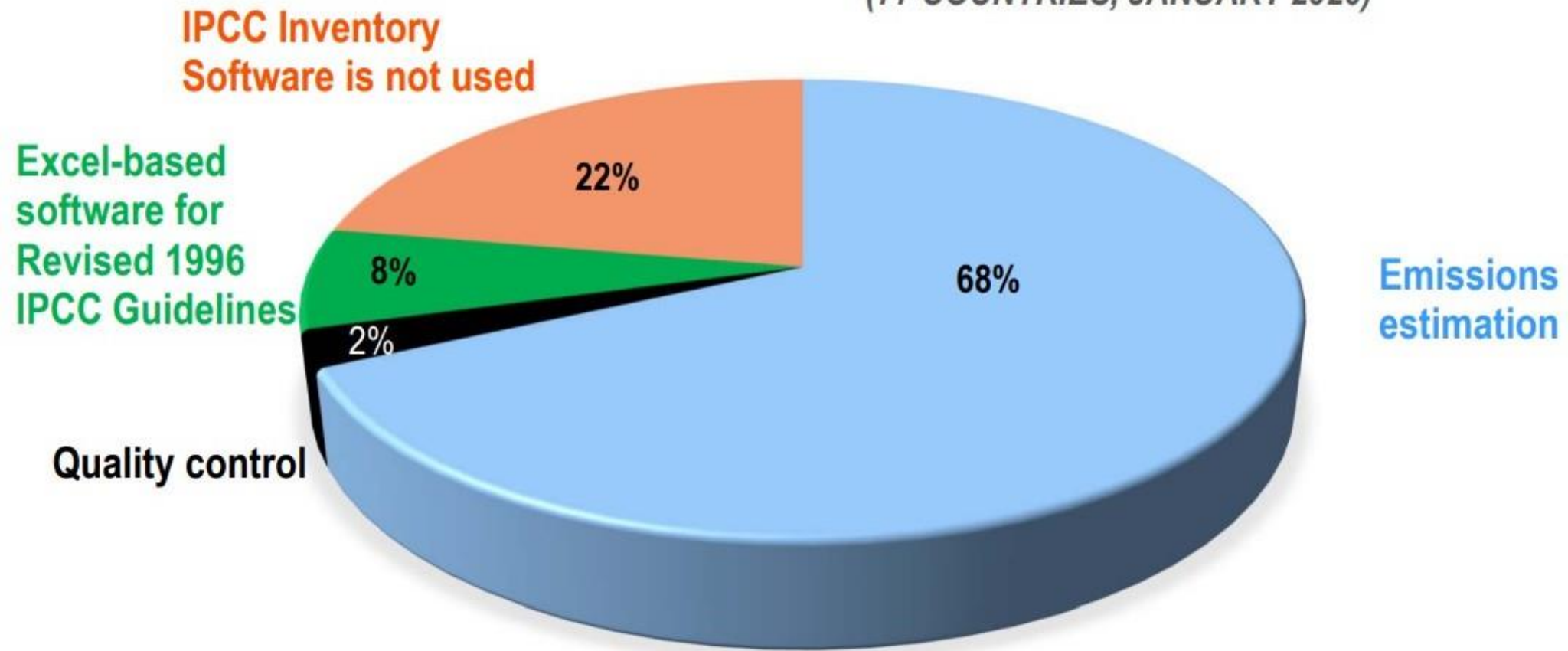
The IPCC Inventory Software can assist inventory compilers in using the IPCC Guidelines

- Stand alone software with modest hardware requirements
- Data entry in worksheets following the 2006 IPCC guidelines for ease-of-use
- It can be used for the whole inventory or just individual categories
- Allows different parts of the inventory to be developed simultaneously
- Can be used when reporting 1996 or 2006 guidelines
- Provides default data from the 2006 IPCC guidelines but gives users the flexibility to use their own country-specific information
- Includes uncertainty and key category analysis
- Aids QA/QC
- Outputs in non-annex I national communications format

- **Free!**

Use of the IPCC Software by Developing Countries

STATISTICS IS BASED ON QUESTIONNAIRES
AND OTHER INFORMATION
(77 COUNTRIES, JANUARY 2020)



New Features of IPCC Inventory Software

IPCC Inventory Software was first released in 2012. Initially, it was designed to be a simple tool implementing only Tier 1 methods according to the 2006 IPCC Guidelines

The latest version, 2.901, has been released on February 14, 2024

- ✓ All Methodological Tiers and approaches according to the 2006 IPCC Guidelines,
- ✓ Calculation of Indirect CO₂ and N₂O emissions according to the 2006 IPCC Guidelines and its 2019 Refinement
- ✓ Interoperability functionality with the UNFCCC CRT Reporting tool (Energy Sector, Waste sector, Agriculture categories)

More Features of IPCC Inventory Software

- Allows for each source/sink to use either a **single methodological Tier or a mix of Tiers**
- Allows, in each equation, to **input user-specific values for EFs and parameters**
- Allows different categories/sectors to be developed simultaneously
- Implements **AR5 GWP₁₀₀** values (and allows any other user-specific metric to be applied)
- Stores the **entire set of information of National GHG Inventory within a single database**

Interface of the IPCC Tool

Main menu

Category: Energy

Hierarchical list of categories

Data Entry

Worksheet-based calculations follow 2006 Guidelines

Time Series Display

Status bar contains useful information e.g. country, inventory year

Fuel	A Consumption (Mass, Volume or Energy Unit)	B Conversion Factor (TJ/Unit) (NCV)	C Consumption (TJ) (C=A*B)	D CO2 Emission Factor (kg CO2/TJ)	I Amount Captured (Gg CO2)	E CO2 Emissions (Gg CO2) (E=C-D*I*0.6-Z)	F CH4 Emission Factor (kg CH4/TJ)	G CH4 Emissions (Gg CH4) (G=C*F/10*6)	H N2O Emission Factor (kg N2O/TJ)	I N2O Emissions (Gg N2O) (I=C*H/10*6)
Anthracite	1000	26.7	26700	96300	26	26	1	0.0	1.5	0.04
Coking Coal	2000	28.2	56400	94600	53	53	1	0.0	1.5	0.0846
Other Bitum...	3000	25.8	77400	94600	73	73	1	0.0	2	0.1548
Sub-Bitum...	4000	18.9	75600	96100	72	72	1	0.0	1.5	0.1134
Lignite	5000	11.0	55000	101000	500	55	1	0.0	1.5	0.08
	500		5000	7000		47		0	1.5	0.00
	600		6000	7500		12	1	0.0	1.5	0.01
	300		3000	7000		63	3	0.0	0.6	0.00
						320720		00791	0.33277	0.51236

Country/Territory: Slovakia | Inventory Year: 1994 | Base year for assessment of uncertainty in trend: 1990 | CO2 Equivalents: SAR GWPs (100 year time horizon) | Database file:

2006 IPCC Software for National Greenhouse Gas Inventories - maya - [Worksheets]

Application Database Inventory Year Worksheets Reports Tools Export/Import Administrative Window Help

IPCC 2006 Categories

- 1.A4b - Residential
- 1.A4c - Agriculture/Forestry/Fishing/Fish F
- 1.A4c.i - Stationary
- 1.A4c.ii - Off-road Vehicles and Other
- 1.A4c.iii - Fishing (mobile combustion)
- 1.A5 - Non-Specified
- 1.A5a - Stationary
- 1.A5b - Mobile
- 1.A5b.i - Mobile (aviation component)
- 1.A5b.ii - Mobile (water-borne compone
- 1.A5b.iii - Mobile (Other)
- 1.A5c - Multilateral Operations
- 1.B - Fugitive emissions from fuels
- 1.B1 - Solid Fuels
- 1.B1a - Coal mining and handling
- 1.B1a.i - Underground mines
- 1.B1a.i.1 - Mining
- 1.B1a.i.2 - Post-mining seam gas emi
- 1.B1a.i.3 - Abandoned underground
- 1.B1a.i.4 - Flaring of drained methan
- 1.B1a.ii - Surface mines
- 1.B1a.ii.1 - Mining
- 1.B1a.ii.2 - Post-mining seam gas em
- 1.B1b - Uncontrolled combustion and burnin
- 1.B1c - Solid fuel transformation
- 1.B2 - Oil and Natural Gas
- 1.B2a - Oil
- 1.B2a.i - Venting
- 1.B2a.ii - Flaring
- 1.B2a.iii - All Other
- 1.B2a.iii.1 - Exploration
- 1.B2a.iii.2 - Production and Upgradin
- 1.B2a.iii.3 - Transport
- 1.B2a.iii.4 - Refining
- 1.B2a.iii.5 - Distribution of oil produc
- 1.B2a.iii.6 - Other
- 1.B2b - Natural Gas
- 1.B2b.i - Venting
- 1.B2b.ii - Flaring
- 1.B2b.iii - All Other
- 1.B2b.iii.1 - Exploration
- 1.B2b.iii.2 - Production
- 1.B2b.iii.3 - Processing

Oil and Natural Gas

Worksheet: Energy
Sector: Fugitive Emissions from Fuels - Oil
Category: 1.B.2.a.i - Venting
Subcategory: CO2, CH4 and N2O from fugitive
Sheet: Data

1994

Notation Keys Available

Industry Segment	Subcategory	Activity	AD	CO2		CH4		N2O	
				Emission Factor (Gg CO2/Unit for AD)	CO2 Emissions (Gg CO2)	Emission Factor (Gg CH4/Unit for AD)	CH4 Emissions (Gg CH4)	Emission Factor (Gg N2O/Unit for AD)	N2O Emissions (Gg N2O)
				C=A*B		E=A*D		G=A*F	
Oil Production	Conventional Oil	1000	10 ⁶ Sm ³	9.5E-05	0.095	0.00072	0.72	0.05	50
	Default Weighted Total	500	10 ⁶ Sm ³	0.0018	0.9	0.0087	4.35	0.05	25
	Heavy Oil / Cold Bitumen	600	10 ⁶ Sm ³	0.0053	0.318		0		0
	Thermal Oil Production	400	10 ⁶ Sm ³	0.00022	0.088	0.0035	1.4	0.00	12
Oil Transport	Loading of Off-shore Production on Tanker Ships	300	10 ⁶ Sm ³	0.005	1.5			0.0002	0.06
Total					5.763				

Uncertainties

Defaults Available: can be over-written with country specific data

Time Series Data Entry

IPCC 2006 Guidelines

See Table 4.2.7 'Guidance on obtaining the activity data values required for use in Tier 1 approach to estimate fugitive emissions from oil and gas operations' in Chapter 4, Volume 2 of the 2006 IPCC Guidelines

Worksheet remarks

1.B.2.a.i - Time Series

Emissions (Gg CO2 equivalent)

1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

Country/Territory: Slovakia Inventory Year: 1994 Base year for assessment of uncertainty in trend: 1990 CO2 Equiv

Reports

Report	Level	Contents
Summary	1.A.1	Emissions
Short summary	1.A	Emissions
Sectoral	1.A.1.a.ii (most disaggregated level)	Emissions
Background	1.A.1.a.ii (most disaggregated level)	Activity data Emissions

Note: *All reports can be exported as MS Excel file*

Non-Annex I Reporting Table

- **The IPCC Inventory Software follows the format of Tables in Annex to Decision 17/CP.8** (*Guidelines for the preparation of National Communications from Parties not included in Annex I to the Convention*)
- **Main Menu**
 - **Export/Import**
 - **NAI Reporting Tables**

Non-Annex I Reporting Table

IPCC Inventory Software - maya - [NAI Reporting Tables]

Application Database Inventory Year Worksheets Reports Tools Export/Import Administrate Window Help

NAI Reporting Table 1

Greenhouse gas source and sink categories	Net CO2 (Gg)	CH4 (Gg)	N2O (Gg)	CO Gg	NOx (Gg)	NMVOCs (Gg)	SOx (Gg)
Total National Emissions and Removals	55610.091	4680.209	15.494	1.249	0.000	0.000	0.000
1 - Energy	506.136	505.375	2.268	0.000	0.000	0.000	0.000
1A - Fuel Combustion Activities	44029.577	12.634	2.268	0.000	0.000	0.000	0.000
1A1 - Manufacturing industries and construction	398.655	0.379	0.326	0.000	0.000	0.000	0.000
1A2 - Transport	37.813	1.246	0.166	0.000	0.000	0.000	0.000
1A3 - International aviation and shipping	1193.109	11.010	1.777	0.000	0.000	0.000	0.000
1A4 - Other Sectors	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1A5 - Other	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1B - Fugitive Emissions from Fuels	6556.559	492.740	0.000	0.000	0.000	0.000	0.000
1B1 - Solid Fuels	6500.004	480.009	0.000	0.000	0.000	0.000	0.000
1B2 - Oil and Natural Gas	56.555	12.731	0.000	0.000	0.000	0.000	0.000
2 - Industrial Processes	1298.264	0.522	1.416	0.000	0.000	0.000	0.000
2A - Mineral Products	8.935	0.000	0.000	0.000	0.000	0.000	0.000
2B - Chemical Industry	78.678	0.508	1.416	0.000	0.000	0.000	0.000
2C - Metal Production	241.461	0.014	0.000	0.000	0.000	0.000	0.000
2D - Other Production	0.000	0.000		0.000	0.000	0.000	0.000
2E - Production of Halocarbons and Sulphur Hexafluoride				0.000	0.000	0.000	0.000
2F - Consumption of Halocarbons and Sulphur Hexafluoride	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2G - Other (please specify)	969.191	0.000	0.000	0.000	0.000	0.000	0.000
3 - Solvent and Other Product Use	0.000	0.000	9.201	0.000	0.000	0.000	0.000
4 - Agriculture		0.216	0.000	1.249	0.000	0.000	0.000
4A - Enteric Fermentation		0.134		0.000	0.000	0.000	0.000
4B - Manure Management		0.037	0.000	0.000	0.000	0.000	0.000
4C - Rice Cultivation		0.000		0.000	0.000	0.000	0.000
4D - Agricultural Soils			0.000	0.000	0.000	0.000	0.000
4E - Prescribed Burning of Savannas		0.000	0.000	0.000	0.000	0.000	0.000

Number of decimal places: 3 Zero padding

Export to Excel

Documentation box

Save

Country/Territory: Slovakia | Inventory Year: 1991 | Base year for assessment of uncertainty in trend: 1990 | CO2 Equivalents: SAR GWPs (100 year time horizon)

Export → NAI Reporting Table

Tools

- **Uncertainty analysis**
- **Key category analysis**

When all values are entered in the worfisheet for each sector, these analysis can be performed by following steps:

Main Menu

→ **Export/Import**

→ **Uncertainty Analysis**

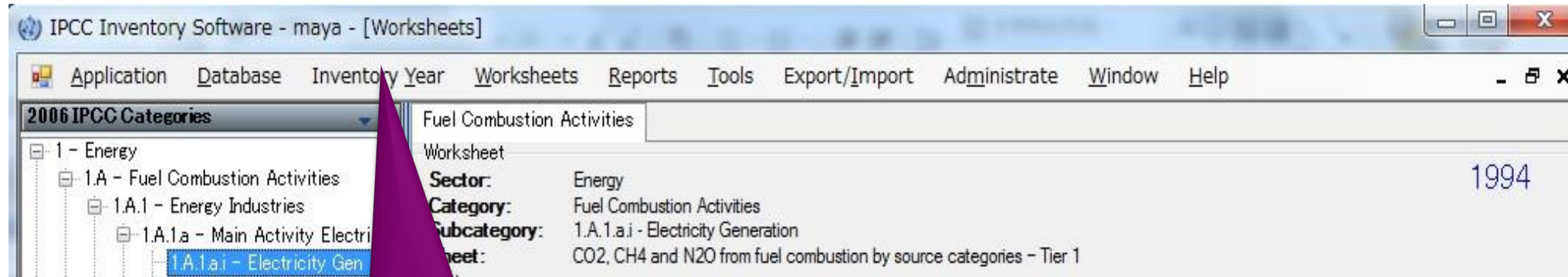
or Key Category Analysis

✓ *clicki "Refresh" button*

The screenshot shows the ICAT software interface. The 'Tools' menu is open, highlighting 'Uncertainty Analysis'. A callout box points to this menu item with the text 'Click Tools - Uncertainty Analysis'. Below the menu, a table displays methane generation data from 1950 to 2012. A second callout box points to a 'Refresh Data' button on a bar chart titled '4.A - Time Series' with the text 'Click "Refresh Data" to perform analysis'.

Year	Methane generated									Methane recovery (Gg)	Methane Emissions (Gg)
	Food (Gg)	Garden (Gg)	Paper (Gg)	Wood (Gg)	Textile (Gg)	Nappies (Gg)	Sludge (Gg)	Industrial (Gg)	Total (Gg)		
1950	0	0	0	0	0	0	0	0	0	0	0
1951	0.56846	0.02109	0.73922	0.13806	0.09562	0.01265	0.13753	7.81853	9.53118	0	9.53118
1952	1.10382	0.04115	1.44946	0.27339	0.1875	0.02469	0.26836	15.25575	18.60412	0	18.60412
1953	1.608	0.06023	2.13185	0.40604	0.27577	0.03614	0.3928	22.33025	27.24109	0	27.24109
1954	2.08282	0.07838	2.78748	0.53607	0.36058	0.04703	0.51118	29.05973	35.46326	0	35.46326
1955	2.52998	0.09565	3.4174	0.66352	0.44207	0.05739	0.62378	35.461	43.29079	0	43.29079
1956	2.95111	0.11207	4.02263	0.78844	0.52036	0.06724	0.73089	41.55008	50.74282	0	50.74282
1957	3.34771	0.12769	4.60412	0.91089	0.59558	0.07662	0.83278	47.34219	57.83759	0	57.83759

Other basic operations - Year

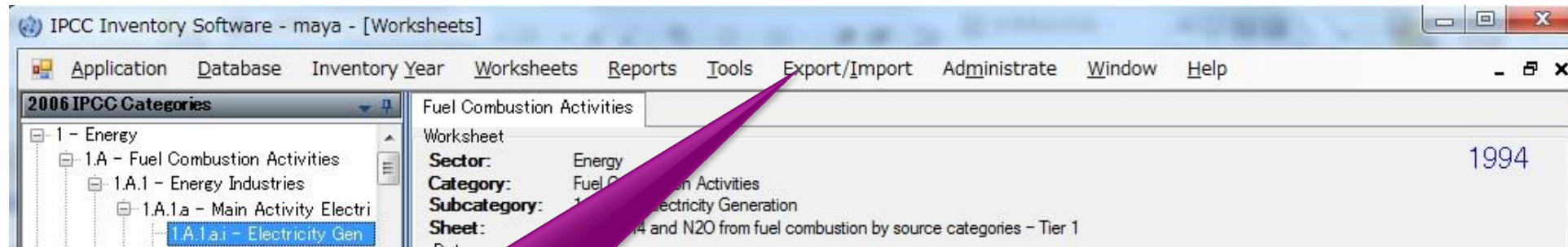


Inventory Year

- Create New year
- Select year

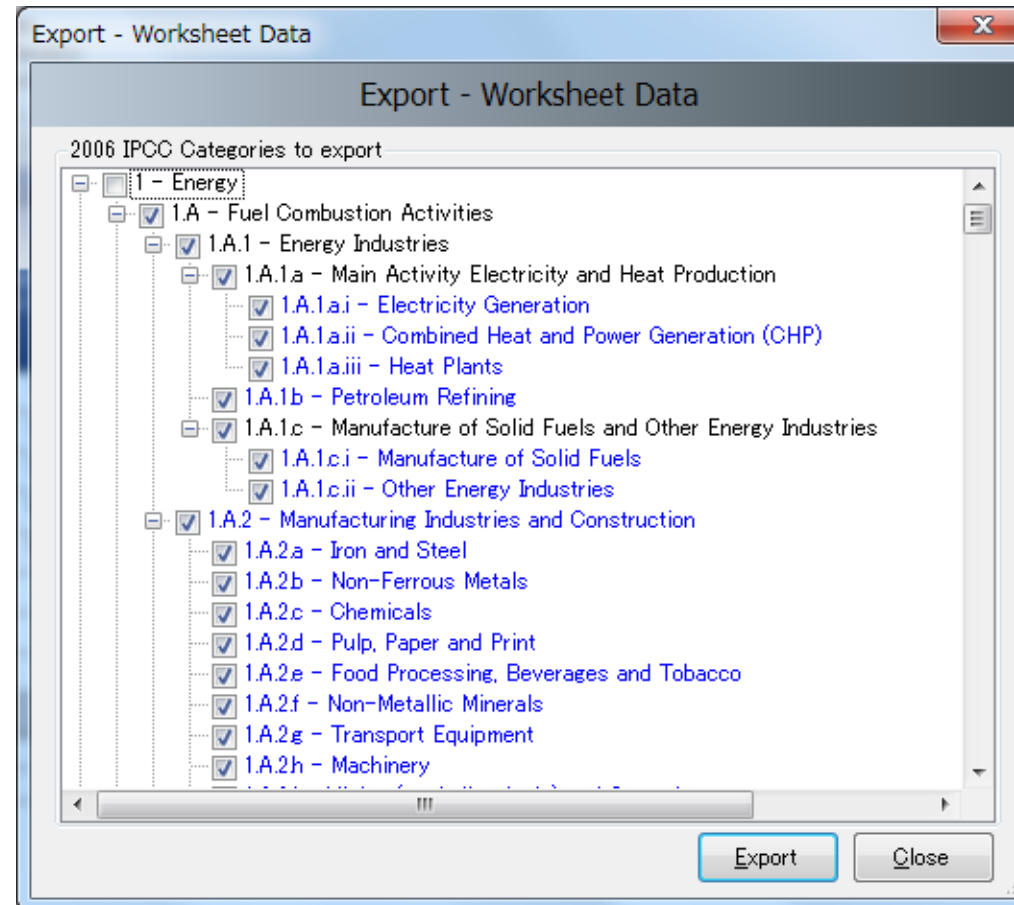


Other basic operations - Export



Export/Import worksheet data as XML file format.

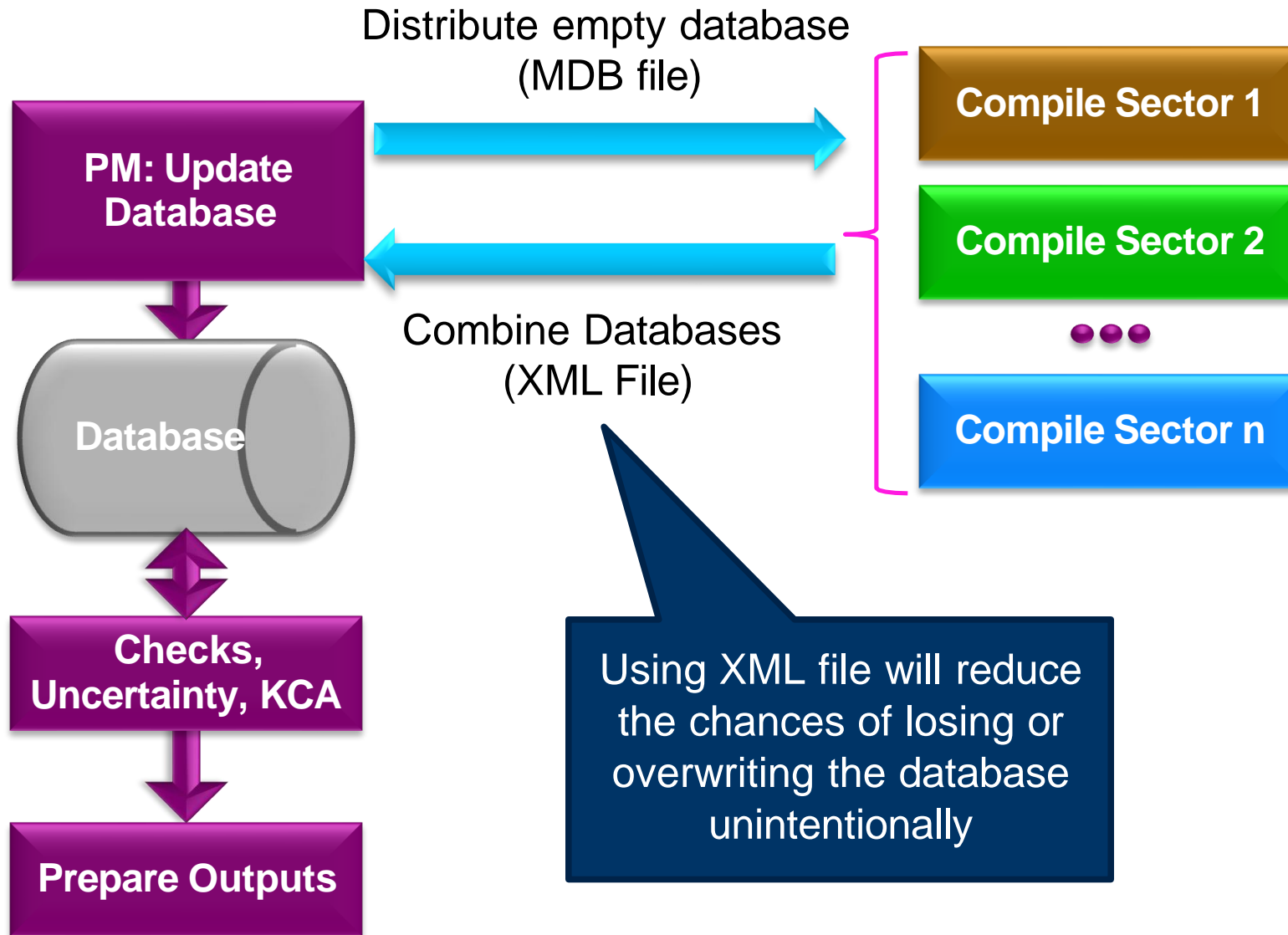
In this example, Worksheet data for category 1A for year 1994 will be exported.



Multiple Users

Project manager

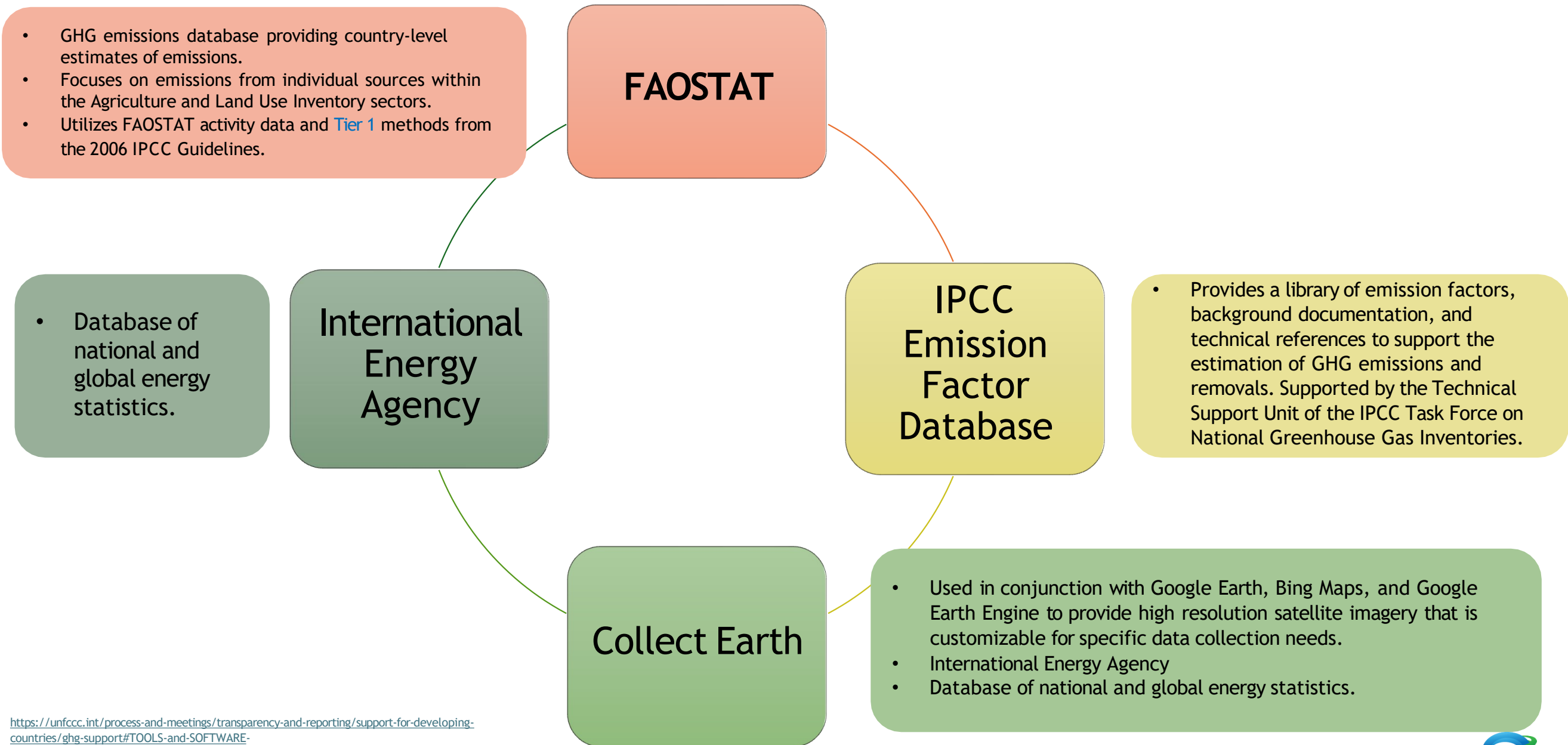
Sectoral Experts(s)



Support

- **The TSU is supporting the IPCC Inventory Software:**
 - Help Desk E-mail: ipcc-software@iges.or.jp
 - Web Forum: <https://discussions.zoho.com/ipccinventorysoftware/>
 - ✓ *please, read the User Manual*
- **TSU will maintain the IPCC Inventory Software and is planning to implement the following:**
 - Tier 2 methods
 - ✓ from Version 2.54, the Software implements Tier 2 methods in the 2006 IPCC Guidelines for most categories under Energy, IPPU and Waste Sectors
 - ✓ livestock categories are under development
 - Wetlands Supplement

Various Tools - Inventory Supporting Materials



<https://unfccc.int/process-and-meetings/transparency-and-reporting/support-for-developing-countries/ghg-support#TOOLS-and-SOFTWARE->

Lets do an exercise

[Download IPCC 2006 Software](#)



Contents

1. Share the Database
2. Export and Import Worksheets



copenhagen
climate centre

1. Share the Database

Define Superuser

- Define a Superuser that is responsible for defining additional users and has full control over the application and corresponding database

Welcome to IPCC Inventory Software

The application is being run for the first time.

It is necessary to define superuser. Superuser has full control over database and application and is responsible for defining and managing additional users working with this instance of application.

Please, supply superuser login name and password in the textboxes

Login

Password

Confirm Password

Password hint

OK Cancel

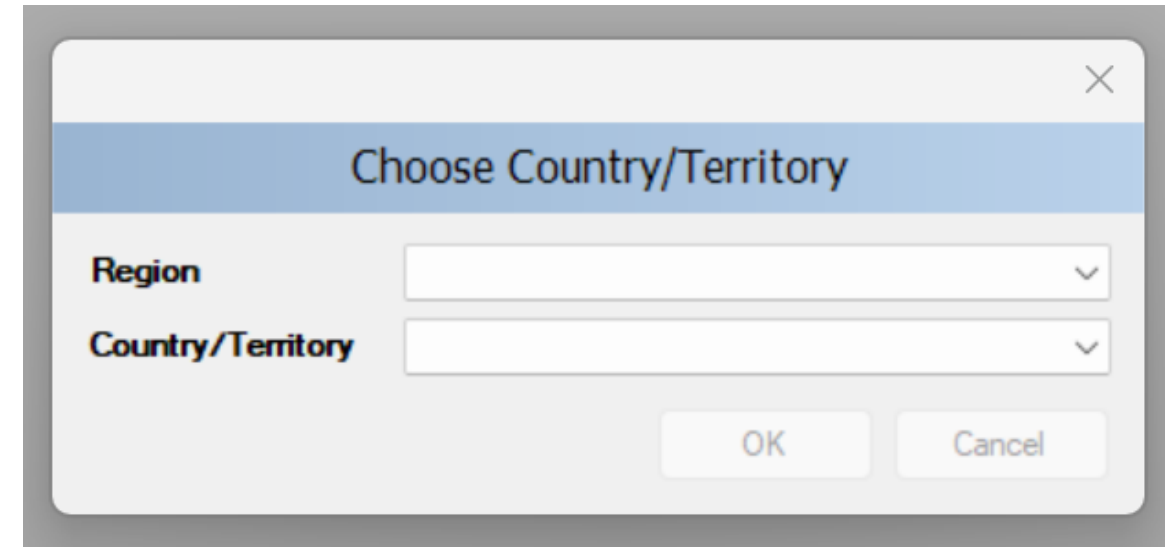


Login	Superuser_Belize
Password	Belize

Choose country

- It is necessary to choose desired Region and Country/Territory

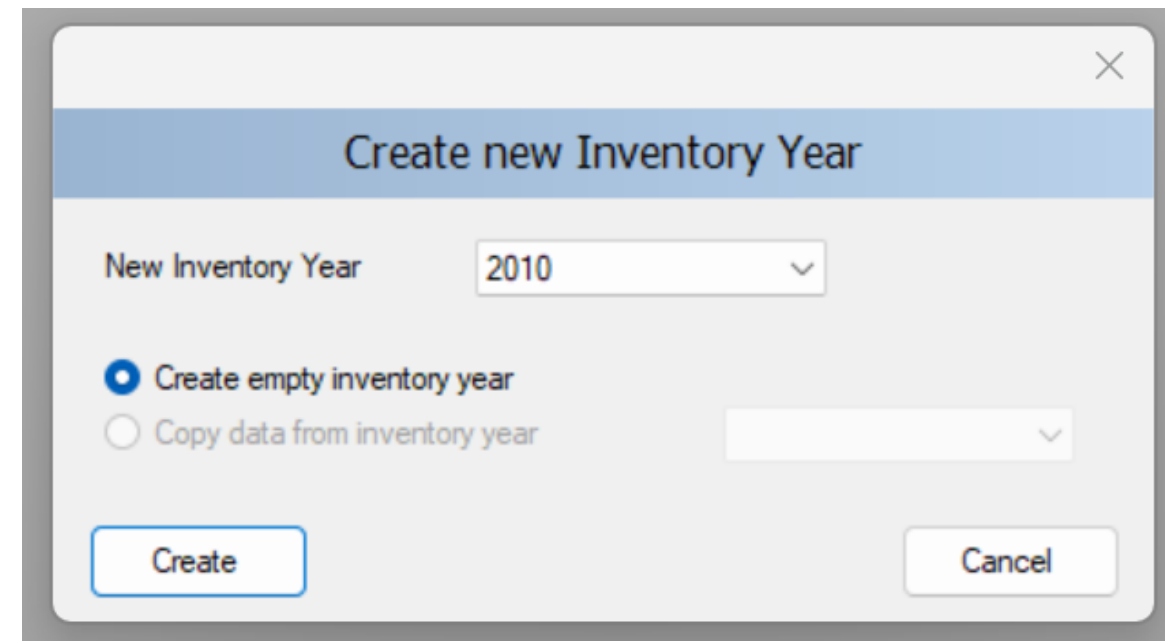
Region	Latin America and Caribbean
Country/Territory	Belize



A screenshot of a software dialog box titled "Choose Country/Territory". The dialog has a close button (X) in the top right corner. It contains two dropdown menus: "Region" and "Country/Territory". At the bottom, there are two buttons: "OK" and "Cancel".

Create Inventory Year

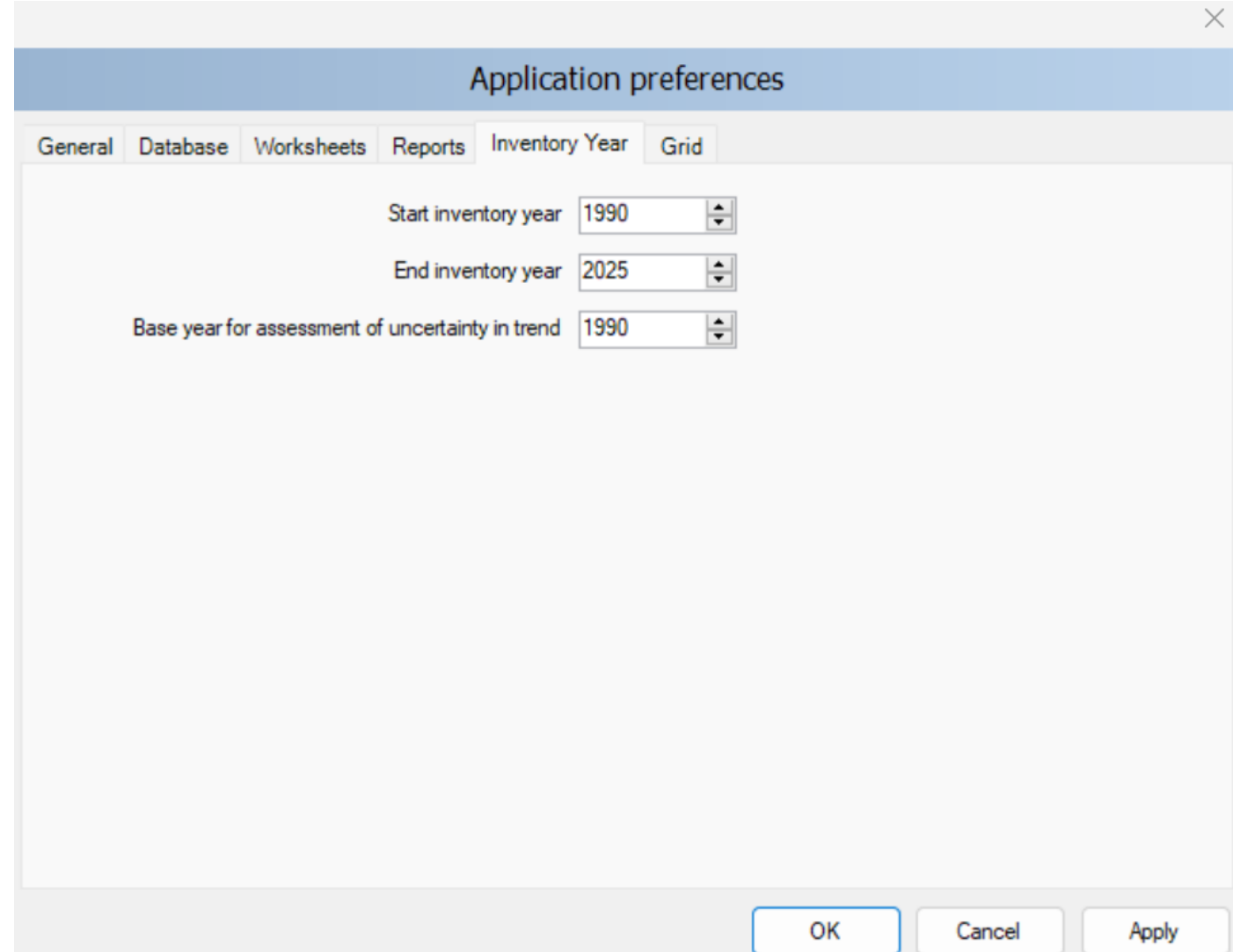
- it is necessary to create an initial Inventory Year



A screenshot of a software dialog box titled "Create new Inventory Year". The dialog has a close button (X) in the top right corner. It contains a dropdown menu for "New Inventory Year" with the value "2010" selected. Below this are two radio buttons: "Create empty inventory year" (which is selected) and "Copy data from inventory year". To the right of the second radio button is a dropdown menu. At the bottom, there are two buttons: "Create" and "Cancel".

Check and modify Inventory Preferences

- Use the Application / Preferences menu to access Application preferences
- Check and modify the following values, if necessary:
 - 1) Use the Start inventory year numeric box to set the starting inventory year. The default is 1990.
 - 2) Use the End inventory year numeric box to set the ending inventory year. The default is the current year.
 - 3) Use Base Year for assessment of uncertainty in trend numeric box to define Base Year for assessment of uncertainty in trend. The default is 1990.



Application preferences

General Database Worksheets Reports Inventory Year Grid

Start inventory year 1990

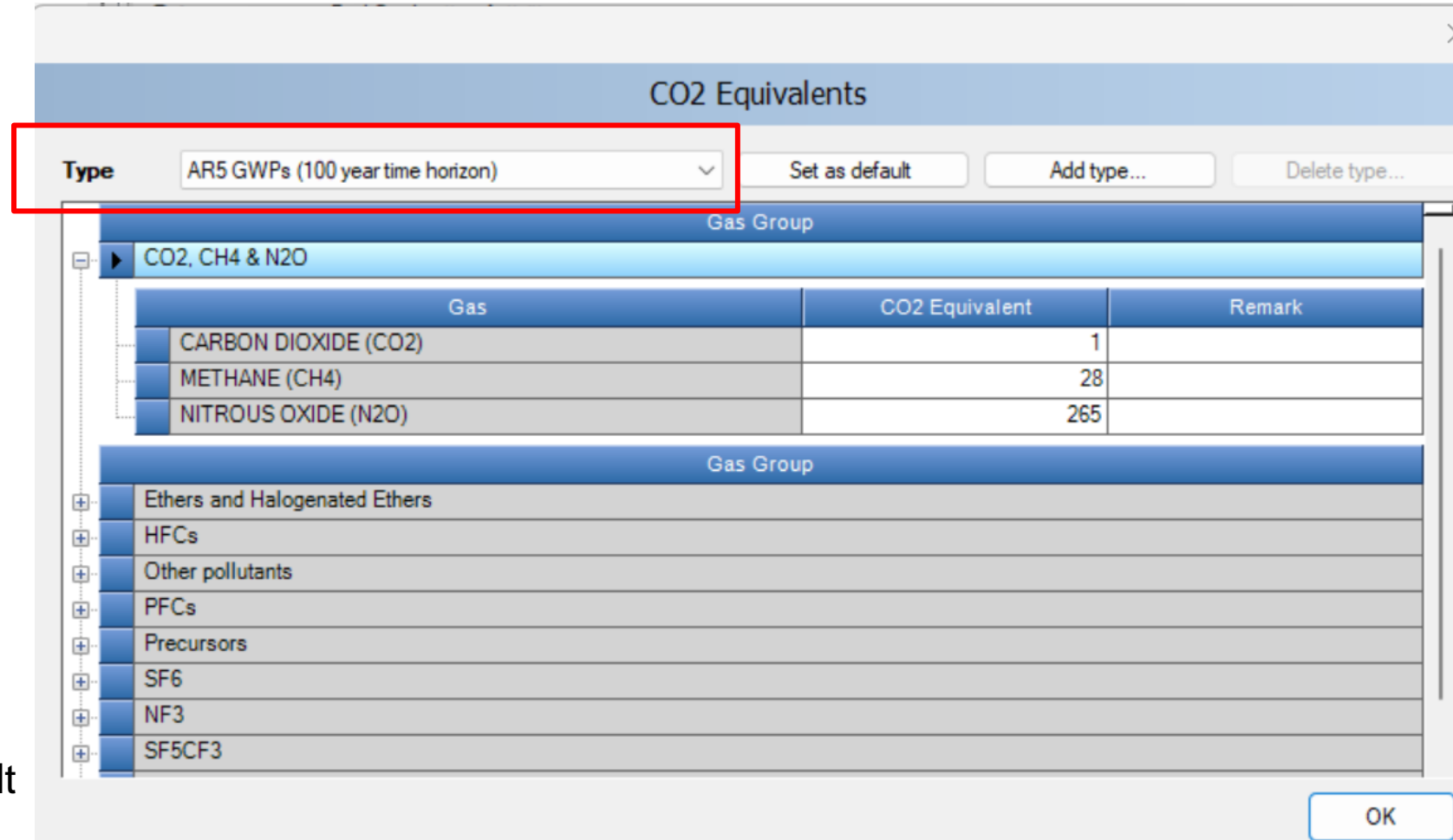
End inventory year 2025

Base year for assessment of uncertainty in trend 1990

OK Cancel Apply

Check and set default CO₂ Equivalents

- Currently, active (default) CO₂ Equivalent Type is indicated in the status bar located at the bottom of the main software window.
- Use Administrate / CO₂ Equivalents menu to access management of CO₂ Equivalents.
- The Type list contains 4 fixed types with fixed CO₂ Equivalent values, that cannot be changed or deleted:
 - SAR GWPs
 - TAR GWPs
 - AR4 GWPs
 - **AR5 GWPs** – these are set as default



CO₂ Equivalents

Type: AR5 GWPs (100 year time horizon) [Set as default] [Add type...] [Delete type...]

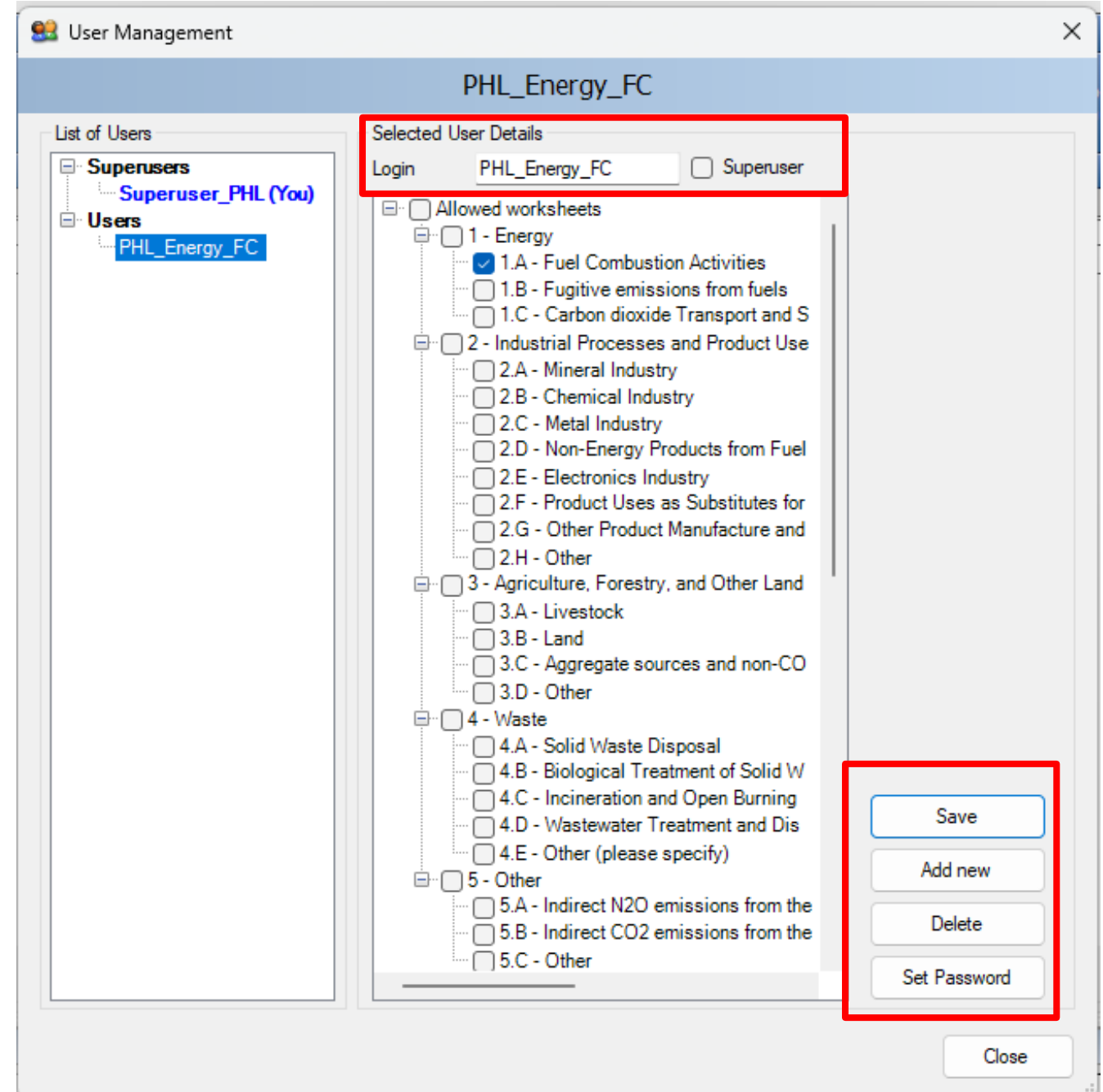
Gas Group		
Gas	CO ₂ Equivalent	Remark
CO ₂ , CH ₄ & N ₂ O		
CARBON DIOXIDE (CO ₂)	1	
METHANE (CH ₄)	28	
NITROUS OXIDE (N ₂ O)	265	
Gas Group		
Ethers and Halogenated Ethers		
HFCs		
Other pollutants		
PFCs		
Precursors		
SF ₆		
NF ₃		
SF ₅ CF ₃		

OK

Adding new user

- Use Administrate / Users menu to access User Management system which is designated for adding new users and editing and deleting existing users in the currently open database.

- Enter the desired unique login name into the Login textbox
- Use the Superuser checkbox to define the user as a Superuser (checked) or ordinary user (unchecked)
- In the case of ordinary users define Allowed Worksheets for the user to work with
- Click the Set password button to explicitly set the password for new user
- Click the Add new button to save a new user into the database



User Management

PHL_Energy_FC

List of Users

- Superusers
 - Superuser_PHL (You)
- Users
 - PHL_Energy_FC

Selected User Details

Login: PHL_Energy_FC Superuser

Allowed worksheets

- 1 - Energy
 - 1.A - Fuel Combustion Activities
 - 1.B - Fugitive emissions from fuels
 - 1.C - Carbon dioxide Transport and S
- 2 - Industrial Processes and Product Use
 - 2.A - Mineral Industry
 - 2.B - Chemical Industry
 - 2.C - Metal Industry
 - 2.D - Non-Energy Products from Fuel
 - 2.E - Electronics Industry
 - 2.F - Product Uses as Substitutes for
 - 2.G - Other Product Manufacture and
 - 2.H - Other
- 3 - Agriculture, Forestry, and Other Land
 - 3.A - Livestock
 - 3.B - Land
 - 3.C - Aggregate sources and non-CO
 - 3.D - Other
- 4 - Waste
 - 4.A - Solid Waste Disposal
 - 4.B - Biological Treatment of Solid W
 - 4.C - Incineration and Open Burning
 - 4.D - Wastewater Treatment and Dis
 - 4.E - Other (please specify)
- 5 - Other
 - 5.A - Indirect N2O emissions from the
 - 5.B - Indirect CO2 emissions from the
 - 5.C - Other

Save

Add new

Delete

Set Password

Close

List of Users

Superusers

contains the list of all Superusers. The user marked blue represents the currently logged-in user.

The following restrictions apply to Superusers:

- Currently logged-in user is prohibited from removing themselves from the Superusers group for security reasons.
- Currently logged-in user is prohibited to delete itself
- All worksheets are allowed automatically without the possibility of changing the list of allowed worksheets

Users

contains the list of ordinary users.

The following restrictions apply:

- Access to the Administrative section of the software is prohibited
- Can see and edit only worksheets specified as Allowed Worksheets

Exercise 01

Please use the downloaded database and credentials for the respective sectors for data entering and compilation

Sector	Login Name	Password
Super User	BZE_Superuser	Superuser
Energy- 1.B-Fugitive Emissions	BZE_Energy	BZE_Energy
Waste- Solid waste disposal	BZE_SolidWaste	BZE_SolidWaste

Go to Dummy Data Databased (Default when downloading software)

[ipcc2006_dummy_v291.accdb](#)

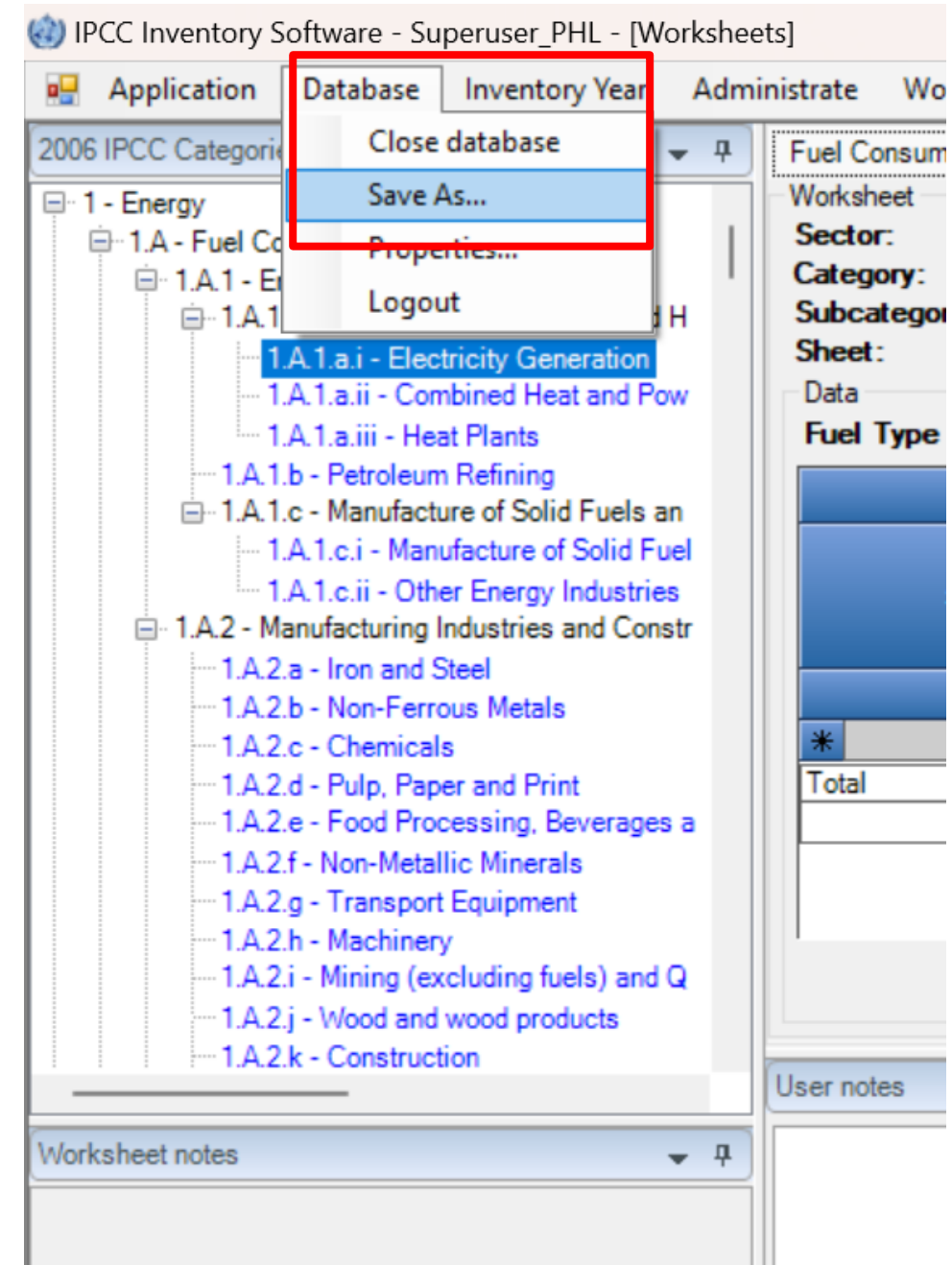
- 1. Create Super User**
- 2. Create Sector User for your sector**

Saving database

Use the “Database / Save As...” menu to save the currently open database to a new file:

- Select destination folder and file
- Choose whether to remove password protection (see note below)
- Decide whether to compress (ZIP) database file (compressed database file must be uncompressed (unzipped) before opening it in the software).

NOTE: Do not remove password protection. Removing the password protection will prevent the database from opening in the software (Software strictly accepts password protected database only for security reasons)



Share one database vs. maintaining multiple databases

Share database file on a network drive

copy the created database file to some shared folder on the network, where other inventory compilers have read/write access. This alternative is strongly recommended because after making administrative changes, all compilers are automatically affected.

Share a copy of the database file via e-mail

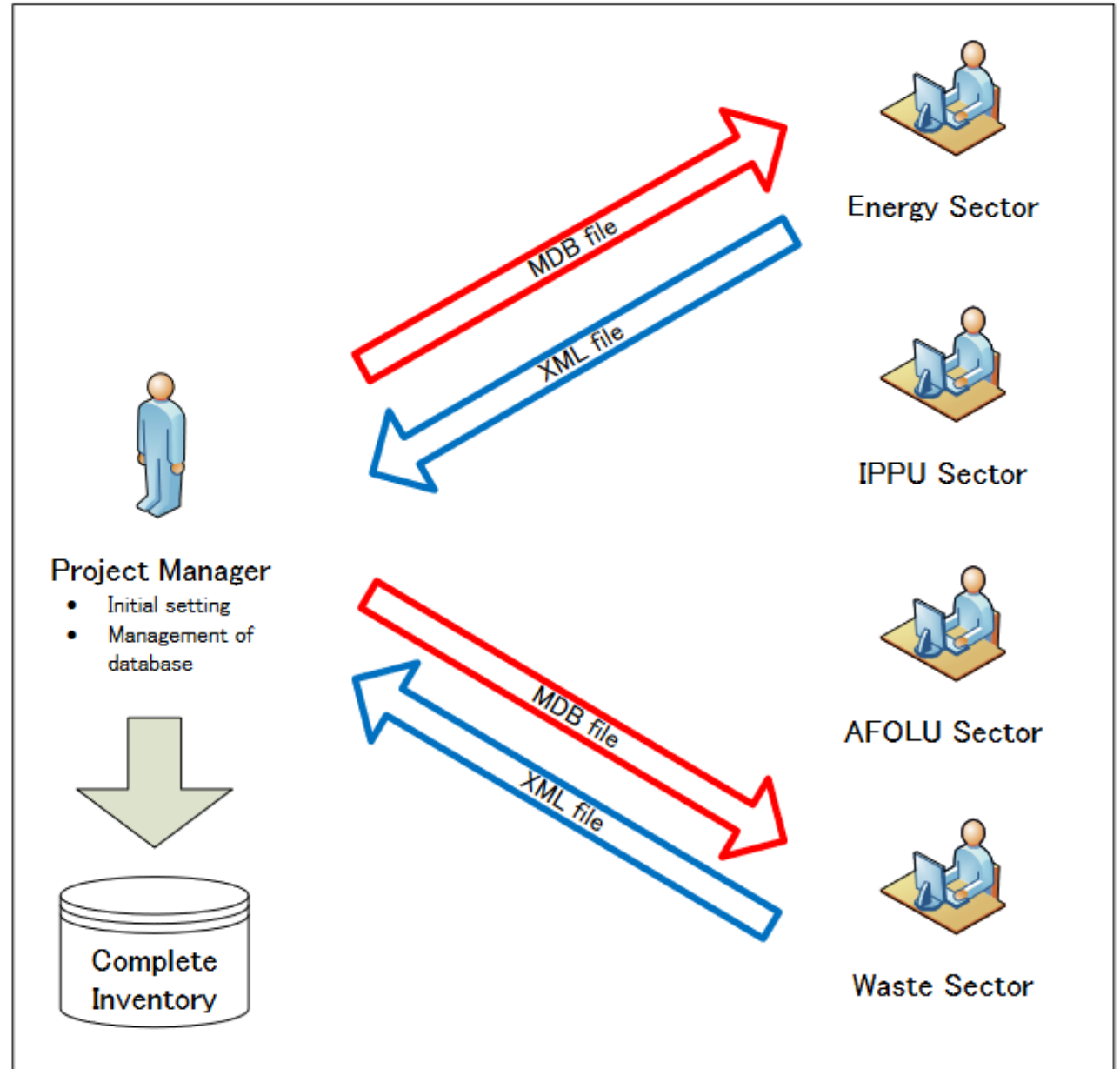
Send a copy of the created database file to each of the inventory compilers (e.g. via e-mail).

Administrative changes must be performed within each copy of the database to maintain consistency across inventory compilers. This approach can easily lead to inconsistency amongst compilers and therefore is not recommended.

Using the software in an inventory team

The safe and simple way to share the data between users is to share one database.

- 1) The project manager should initialize the database.
- 2) The project manager provides the database (ACCDB file) to each user.
- 3) After users update the data to their database, this data should be exported as XML file.
- 4) The manager imports the XML file to update the database.

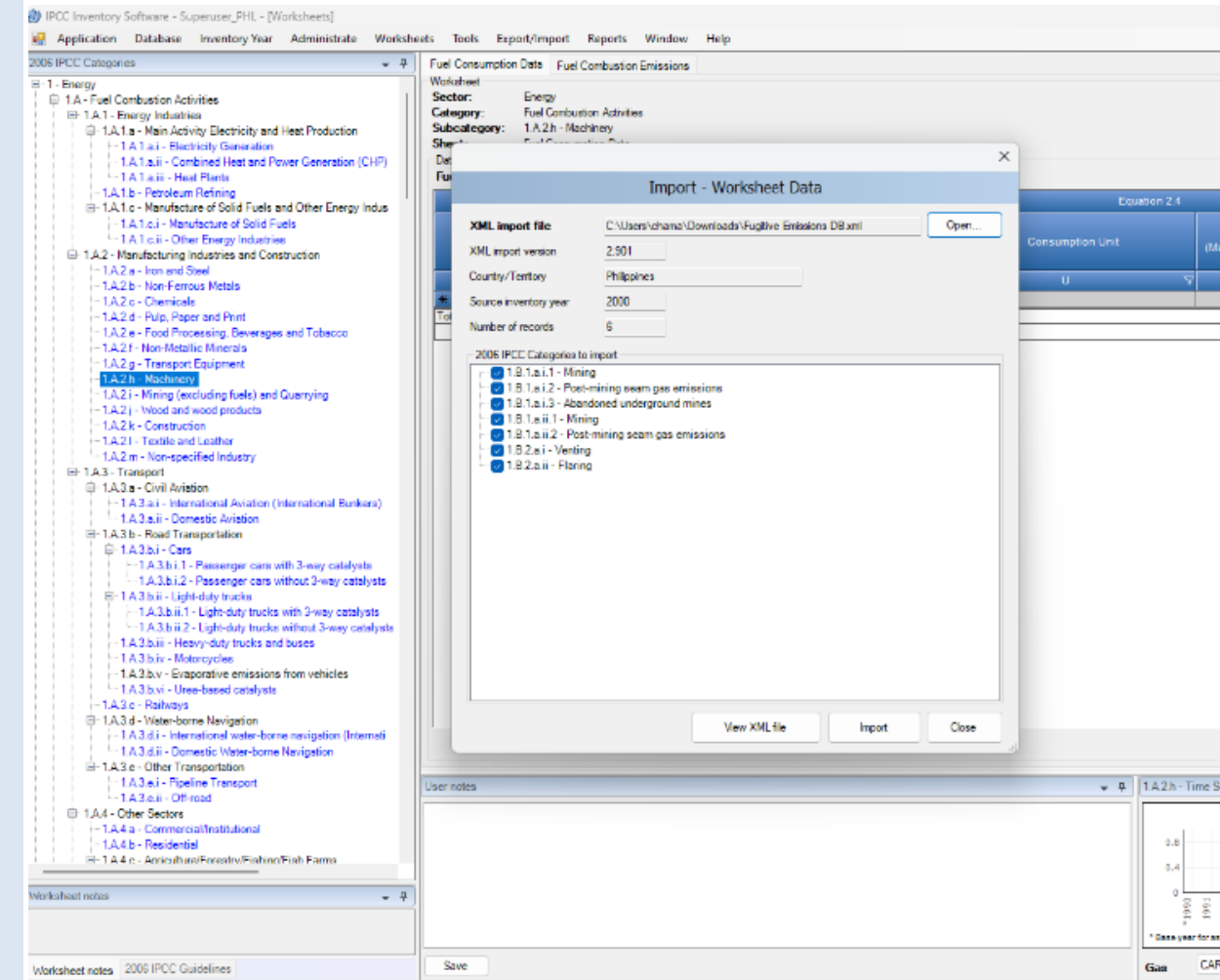


2. Export and Import Worksheets

Import Worksheet Data

This menu item opens the dialog window that allows importing an XML file containing a part of an inventory, i.e. one or more sectors, sub-sectors or categories into the currently open database and currently chosen Inventory Year.

- 1) Click the Open button to browse for XML file to be imported.
- 2) Check the details such as XML Import Version, Source inventory year, and Number of records, and decide whether this import file suits your needs.
- 3) Section Categories to import contains the list of all categories included in the source XML file. Select the categories of interest to be imported. All categories are selected by default.
- 4) Click the Import button to begin importing. A progress bar will be shown to indicate the progress of import.



UNFCCC ETF Reporting Tool

16 – 19 April 2024
Belize

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Regional Network Coordinator – Anglophone Caribbean
CBIT-GSP

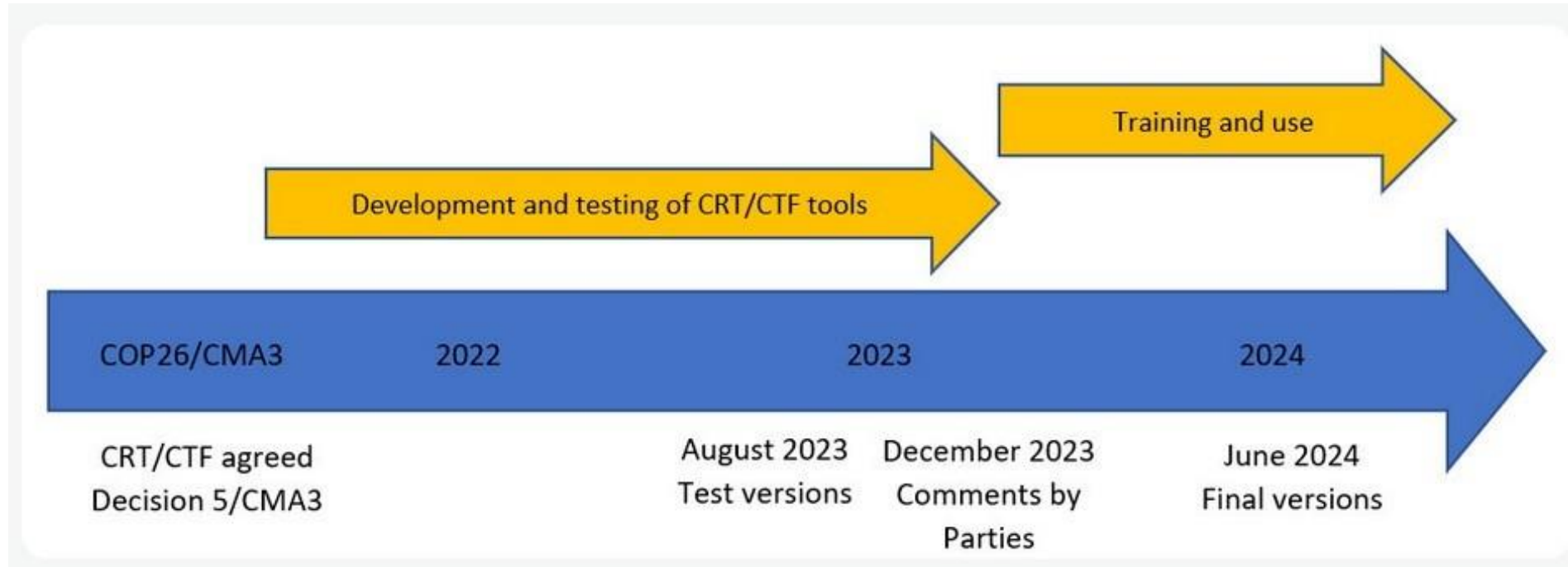


Contents

1. Introduction to the UNFCCC ETF Reporting Tool
2. Interoperability with IPCC Software
3. Request access to the ETF Reporting tools

Introduction

Following the mandate from decision 5/CMA.3, the secretariat is developing the ETF reporting tools for use by Parties for reporting the information as required by the modalities, procedures and guidelines for the enhanced transparency framework (decision 18/CMA.1)



Milestones in the process of development of the reporting tools

ETF Reporting Tools



GHG INVENTORY REPORTING TOOL

- Generates the common reporting tables (CRTs) for the electronic reporting of the information in the national inventory reports (NIRs) of anthropogenic emissions by sources and removals by sinks of GHG as contained in annex I to decision 5/CMA.3



PROGRESS REPORTING TOOL

- Generates the common tabular formats (CTFs) for the electronic reporting of the information necessary to track progress made in implementing and achieving nationally determined contributions (NDCs) under Article 4 of the Paris Agreement, as contained in Annex II to decision 5.CMA.3



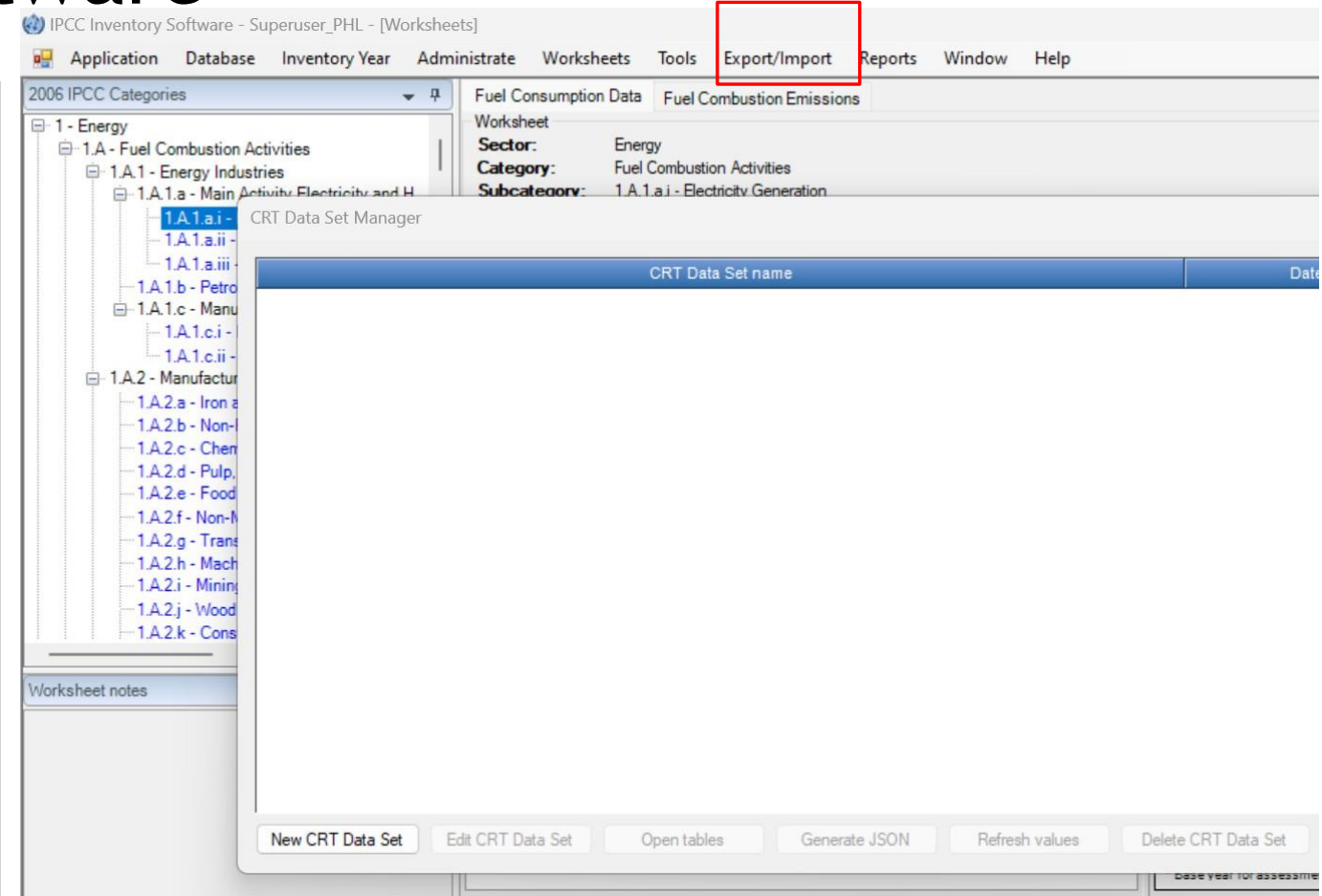
SUPPORT REPORTING TOOL

- Generates the common tabular formats (CTFs) for the electronic reporting of the information on financial, technology development and transfer and capacity-building (FTC) support provided and mobilized, as well as support needed and received, under Articles 9-11 of the Paris Agreement, as contained in annex III to the decision 5/CMA.3

Interoperability with IPCC Software

The interoperability with the IPCC Software allows the transfer of the data from the IPCC software to the GHG Inventory Reporting Tool. After estimating the national GHG inventory Parties can export the JSON data exchange file from IPCC software and import it to the GHG inventory reporting tool.

- Generation and Export of JSON files are available in the **IPCC software version 2.871 or later**.
- In the test version, JSON import can be done at the **sector level only**.
- In the test version, JSON file generation has been implemented for the **Energy and Waste sector** only. More sectors will follow in future releases.



In the IPCC Software

1. After compiling your GHG inventory, Click “Export/Import” > “Export” > “UNFCCC CRT”
2. Click “Generate JSON” and a JSON file is generated.
3. Save the JSON file to your computer and it can now be imported to the GHG Inventory reporting tool.

Interoperability with IPCC Software

The screenshot displays the IPCC software interface with several key components and dialog boxes:

- Left Panel:** A tree view of IPCC categories under 'Energy', including '1.A - Fuel Combustion Activities' and '1.A.2 - Manufacturing Industries'.
- Top Panel:** Tabs for 'Fuel Consumption Data' and 'Fuel Combustion Emissions', with a 'Worksheet' tab active.
- CRT Data Set Manager:** A central dialog box showing a list of data sets, with 'Energy2000_20240313' selected.
- New CRT Data Set:** A dialog box for creating a new data set, with 'Name: Energy' and 'Years: 2000'.
- Select sector and years:** A dialog box for selecting a sector ('Energy') and years (2000).
- Buttons:** Several buttons are highlighted with red boxes: 'New CRT Data Set', 'Save', and 'Generate JSON'.

Upload JSON files generated from IPCC Software to UNFCCC Reporting

In the GHG Inventory reporting tool

1. In the “Inventories” tab, click “+ Create version”
2. Click “Select” in the “Upload a file” tile
3. Click “Select” and select the JSON file exported from the IPCC software. You can also drag and drop the file in drag and drop area.
4. Specify “Submission year”, “Default version” and click “Create inventory”. The inventory will be created.
5. Specify applicable version settings and click “Go to data entry” to start working on your inventory.
6. The data imported from the IPCC software will already be populated in the data entry grids.
7. You can modify the data, if needed.



Reference- https://unfccc.int/sites/default/files/resource/ETF_GHGI-RT_HandsOnTraining_LACCW_v1.pdf

How to request access to the ETF Reporting tools?

To request access for testing the ETF Reporting Tools

- Request your National Focal Point to nominate you for accessing ETF Reporting Tools
- UNFCCC Secretariat will provide access to the users
- Users can start testing the ETF Reporting Tools

Following the mandate from decision 5/CMA.3, the secretariat has released the test version of the tool at

<https://apps.unfccc.int/home>

Reference- https://unfccc.int/sites/default/files/resource/ETF_GHGI-RT_HandsOnTraining_LACCW_v1.pdf

Any Questions?





Welcome to the
Climate
Transparency
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LEARN MORE

Thank you for your attention !

Please reach out to us for any question, comments or suggestions!



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