# BTR Finalization and NDC Alignment Workshop

Saint George's, Grenada | 1st April – 4th April 2025

Day 1



# **Opening and formal welcome**

# Housekeeping

- Bathrooms
- Coffee breaks and lunch
- Registration and travel logistics
- Cellphones and laptops
- Questions and "parking lot"
- Confidentiality
- Open and non-discriminatory environment
- Announcements?

# Objectives of the workshop Agenda of today

# **Objectives of the workshop**

- Explore the interlinkages between the BTR and the NDC cycles
- Gain hands-on experience on the use of the UNFCCC ETF reporting tools
- Provide in-depth technical advice on the application of the MPGs
- Facilitate feedback from peers of their on-going work on different chapters of BTRs
- Promote sharing of lessons learned and experiences on certain technical issues and challenges
- Encourage improvement plans and prepare for TERs

# Agenda Day 1

# Participants introduction Group photo and coffee break

- Interactive Quiz
- Highlights of Linkages between BTRs and NDCs
- Panel discussion BTR preparation and NDC Update

### Lunch

- Introduction to ETF reporting tools
- Hands-on exercises
- Reflection and feedback of the day

# **Participants Journal**

- Reflect at the beginning and the end of each day about different aspects and note them down
- exchange with others on your thoughts/questions/learnings
- Take journal and notes home with you

# **Participant Introductions**

- Name
- Country
- Primary climate measurement, reporting, and verification role
  - Not your title. What is your primary role within climate MRV for your country?

# **Participant Introductions (now in pairs)**

- 1. What experience do you have to bring to the workshop?
- 2. What are you hoping to <u>take away</u> from the workshop?
- 3. What does <u>success</u> look like at the end of the workshop?

# Group Photo & Coffee Break







Quiz on BTR & NDC

Join at menti.com | use code 3725 6623

https://www.menti.com/albbu4cepsdr



### **NDC and BTR**

Highlighting the linkages



### **NDC and feedback mechanisms**



- The Paris Agreement recognizes that its objectives will be achieved through time
- It builds on aggregate and individual progression/ambition
- It establishes a mandatory cycle of NDCs:
  - First submission by 2020 with 2030 targets
  - Enhanced ambition submitted every 5 years
  - Next NDCs are due in 2025
- Feedback Mechanisms
  - Global Stocktake
  - Enhanced Transparency Framework





### **NDC submission process**



### What about targets and indicators?

A close cooperation between NDC team and BTR team is key for:

- Setting targets and indicators that can be realistically monitored
- Avoid addition of unnecessary and inconsistent indicators
- Selecting indicators for which there is sufficient:
  - Capacity within the NDC tracking team
  - Historical data available
  - Institutional arrangements in place



### Information necessary to track progress

#### A. National circumstances and institutional arrangements

Should be used to show a comprehensive image of the country's particular context that might impact their progress towards NDCs, including institutional, legal, procedural arrangements for implementation.

#### B. Description of a Party's NDC under Article 4 of the Paris Agreement, including updates

Detailed description of the NDC, including all its parameters and any updates since the last report. The purpose is to ensure a clear understanding of the country's climate commitments and any changes therein.

#### C. Information necessary to track progress made in implementing and achieving NDCs

The goal of this section is to outline how a country tracks its progress towards meeting its NDCs. It involves detailing the specific indicators used and sharing the most recent data related to these indicators.

#### D. Mitigation Policies, Actions, and Plans

Section that presents policies, actions and plans in place to mitigate climate change. The goal is to highlight the measures being taken to reduce GHG emissions and the effectiveness of these measures.

#### E. Summary of GHG Emissions and Removals

Provide a succinct summary of a country's GHG emissions and removals. This information is especially important for countries submitting a stand-alone national inventory report

#### F. Projections of GHG Emissions and Removals

Projection of future GHG emissions and removals, based on current mitigation policies and measures. This helps to identify the potential future trajectory of a country's GHG emissions. (Flexibility)

#### G. Other Information

Any additional information that helps understand the progress in implementing and achieving their NDCs. This could include any unique initiatives, challenges, plans, etc.



# **Common Tabuls Format (CTF)**

In total, the Common tabular formats comprise 12 Tables and one Appendix, covering the 7 parts of Section III of the MPG:

Section III: Information necessary to track progress made in implementing and achieving NDC

Annex II+

Common tabular formats for the electronic reporting of the information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

I. Structured summary: Description of selected industors

- dedicaterial anisolation washing any second	<b>December</b>
(Indecator)	27-217
Information for the orderence point(i). In havefane(s), hour proofs) or starting point appropriate <sup>4</sup>	nekis). Gol. m
Updates as accordinate with any recalcul the GHG surveyory, as appropriate?	lation of
References to NDV7	

love: (1) Pressant to pieze 76 of the MPGs, each Party shall report the subreaston referred to in parts. 61-78 of the MPGs in a matterior and common tabular format, as applicable, (2) A Party star amend the reporting format is g Excel file) to remove specific rows in this table if the information to be provided in these rows is not applicable to the Party's NDC studiet Article 4 of the Paris Agreement, in norminary with the MPGs. (1) The Party could add over the automatic batche for a stanking bettelber formatible chies

\* Each Party shall identify the inductority that it law selected to track progress of its NDC (pass. 81 of the MPGs) \* Earth Party shall provide the information for each selected indicates for the reference pract(s), investigaelizació, base year(c) or contag point(c), and chall update the influenzation in accordance with any recalcula

the GHG accentory, as appropriate (parts #7 of the MPGs) \* Each Party shall describe for each associate allegabled have it to related to an NDC (party 70(4) of the MPG).

Cashing (Antiputer)

Distancesiation June

#### NDC definition and methods

- Appendix: Description of a Party's NDC
- Table 1: Description of selected indicators
- Table 2: Definitions needed to understand the NDC
- Table 3: Methodologies and accounting approaches

#### Current mitigation status and tracking progress

- Table 4: Tracking progress
- **Table 5:** Mitigation policies, measures, actions and plans (Achieved)
- Table 6: Inventory summary

#### Projections and expected emissions reduction

- Table 5: Mitigation policies, measures, actions and plans (expected)
- Table 7: Projections "with measures" scenario
- Table 8: Projections "with additional measures" scenario
- Table 9: Projections "without measure" scenario
- Table 10: Projections of key indicators
- Table 11: Key underlying assumptions and parameters of projections

#### Response measures

• Table 12. Information necessary to track progress on the social and economic consequences of response measures

# Thank you!

# Panel "Experiences on BTR preparation and NDC update"

- **Grenada:** preparing BTR | *Mr. Titus Antoine*
- **St. Lucia**: NDC update submitted and preparing BTR | *Ms*.
- Jermaine Missole
- Trinidad & Tobago: submitted BTR | Mr. Kishan Kumarsingh

# Lunch Break Bon Appétit!

UN @





manage



# **Energiser - 60" connections**

- Participants pair up and have 60 seconds to find something they have in common – not work related.
- After 60" pairs swap.
- Three rounds.

# Overview of the ETF reporting tools

**Tibor Lindovsky** Transparency Division UNFCCC Secretariat

#### **Building blocks supporting ETF implementation**

Enhances the skills and knowledge of technical experts to report and review information in a manner that is both efficient and effective

> Facilitates the submission of information by Parties in a user-friendly and efficient manner



Enhances sustainability, boosts effectiveness, and increases efficiency in both national reporting and the international review process

Facilitates the effective and efficient review of submitted information

#### **Overview of BTR**

**Chapter IV and V: Chapter II:** Progress **Chapter III: Chapter I:** Financial, technology, made in Climate change National GHG Thematic and capacity-building implementing and impacts and inventory chapters support achieving NDCs adaptation (shall) (shall/ should) (shall) (should) Information on application of flexibility provisions Additional areas, as applicable Areas of improvements in reporting over time Information on CTFs for Technical annexes **CRTs** for Annexes, as CTFs for participation in progress in for REDD+ applicable NIR FTC cooperative approaches **NDCs** Additional information Vulnerability assessment, climate Research and Education, training and when NCs and BTRs change impacts and adaptation systematic observation public awareness submitted jointly measures - *if not reported in BTR* (every 4 years)

For the BTR outline, see <u>decision 5/CMA.3</u>, Annex IV.

### **ETF reporting tools: Mandate**

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18/CM

ecision

Article 13 of the Paris Agreement: Enhanced transparency framework (ETF)

Modalities, Procedures and Guidelines (MPGs) for enhanced transparency framework (Decision 18/CMA.1) Requested SBSTA to develop:
common reporting tables (CRTs) for GHG inventories
common tabular formats (CTFs) for tracking NDC progress and achievements
common tabular formats (CTFs) for support provided, needed and

received





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A

/CM/

**D** 

ecision

 Establish an interactive web-portal for support info by Dec 2025



### **Overall scope**

#### 3 tools: GHG inventory, Progress, Support





• All sectors, data entry grids

- All flexibility provisions and version settings
- Key category analysis
- Interoperability with IPCC
- software



SS

• All data entry grids

- All flexibility provisions and
- version settings
- Interconnection with CRT





• All data entry grids

- All version settings
- Detailed explanation of each decision step

- Manual data entry or Importing and exporting data (Excel and JSON)
- Generating reporting tables
- Providing comments/custom footnotes/doc boxes
- QA/QC checks
- Working in offline mode
- Interoperability with IPCC software (GHG inventory tool)

MAIN FUNCTIONALITIES

ETF Reporting Tools released in June 2024 to allow Parties to compile data and generate reporting tables for submission

### **ETF Reporting Tools**

Demonstration of the ETF reporting tools (Live Demo): <u>https://www.canva.com/design/DAGHX8MJM1w/g5Ous-y7Tajbia3DYMWaFg/watch</u>

The live demo features how to:

- Access the ETF reporting tools
- Create a new CTF/CRT version for a specific submission year
- Specify and modify version settings
- View and access all CTF/CRT versions
- View and move through the navigation tree
- Add and modify data in the data entry grids
- Work in offline mode
- Export/import of data entry grids to excel
- Generate/download reporting tables

#### C ETF TOOLS 111 A · Online Please select one of the ETF reporting tools ETF | GHG INVENTORY ETF | PROGRESS ETF | SUPPORT Reporting tool Reporting too Reporting too Enter > Enter Enter 1

**Only Parties' nominated users have access.** 

### Framework

#### ...implemented

#### User management



#### User management tools

- <u>My Team</u>: allows focal points to add/remove/ modify user roles
- <u>My Apps</u>: allows assigned users to access tools as per granted roles

Electronic reporting of information (CRTs/CTFs)



#### **ETF reporting tools**

- ETF GHG inventory reporting tool: CRTs for national GHG inventories
- ETF Progress reporting tool: CTFs for tracking NDC progress and achievements
- ETF Support reporting tool: CTFs for support provided, mobilized, received & needed

#### .. under implementation

Submission of CRTs/CTFs and narrative documents

Data storage and management



National reports submission portal

Allows Parties to submit CRTs, CTFs and other narrative documents (BTR, NID and Annexes)

#### UNFCCC climate data hub

Store and prepare data for further processing, analysis and management

#### **User management**

https://www.youtube.com/watch?v=jQbC3WSamu8



National focal points:

nominate and communicate focal point for ETF to the secretariat ETF focal point and Alternate: the secretariat registers them to <u>My Team</u> app and they add IFP and NRC and their alternates





Inventory focal point or Alternate for GHG inventory reporting tool creates expert users

: National report compiler or : Alternate for : Progress reporting : tool creates expert users : National report compiler or : Alternate for Support : reporting tool creates expert users



Energy, IPPU, Agriculture, LULUCF Waste experts access the tool to work

Tracking progress, PaMs, Projection experts access the tool to work

Support experts access the tool to work

**!!** Secretariat is NOT responsible for providing/removing access.

#### **User management – GHG Inventory Tool**

ETF Reporting Tool Role	User Roles	Actions they may take on the GHG inventory	Maximum number of users
Overarching	ETF Focal Point (FP)	Add/remove all users, view inventories	1
	ETF FP Alternate		1
GHG Inventory	Inventory Focal Point (IFP)	Add/remove inventory experts, create inventories and complete/edit version settings	1
	IFP Alternate		1
	Expert Energy	Enter/edit data in the Energy sector	Multiple
	Expert IPPU	Enter/edit data in the IPPU sector	Multiple
	Expert Agriculture	Enter/edit data in the Agriculture sector	Multiple
	Expert LULUCF	Enter/edit data in the LULUCF sector	Multiple
	Expert Waste	Enter/edit data in the Waste sector	Multiple

**!!** Secretariat is NOT responsible for providing/removing access.

https://www.youtube.com/watch?v=jQbC3WSamu8

### **Submission workflow**



### Submission workflow – Statuses of GHG inventory submission

- Initiated: The inventory has been created but the version settings have not been completed by the IFP yet to allow for data entry. Only the role of IFP can edit the version settings in the initiated state.
- ii. Started: The inventory is ready for data entry.
- iii. QA/QC: The inventory is locked and is ready for the QA/QC within the Party. The inventory is in read-only state. All users may QA/QC the inventory.
- iv. Awaiting approval: the inventory is waiting for ETF FP approval.
- v. Approved: Inventory has been approved by the ETF FP.
- vi. Awaiting submission: Inventory is made visible in the NRSP for submission to UNFCCC secretariat.
- vii. Submitted: The final inventory published on the secretariat website.
- viii. Returned: A read-only archived version, returned from the NRSP.
  - ix. Withdrawn: A read-only archived version, withdrawn by the Party NRSP user.

### Thank you for attention

Webpage ETF Reporting Tools:

https://unfccc.int/process-and-meetings/t ransparency-and-reporting/reporting-andreview/transparency-data-and-tools/etf-re porting-tools

**ETF Reporting Tools Help Page:** <u>https://unfccc.int/etf-reporting-tools-help</u>

Contact us at: CGESupport@unfccc.int



# **Backup slides**
### **Submission workflow**

Start Submission: -					Party landing	page in the NR	SP		
Biennial Transparen National Inventory F	cy Report (BTR)	Туро		1. Click on Start	mission Cycle	~	Submission Statu	15	~
Submission type	Submission	ycle	St	2. Select	mission status	Sul	bmission date	User	Action
VIR	BTR2		20	sterne sterrype	lished	202	24-11-11 11:28	Kristina Kaar	VIEW

### Make your submission



### **Submission workflow**



### **Submission workflow**

		Par	ty landing page in the NRSP			
Start Submission +						
Submission overview.	: Bubression Type	÷	Submission Cycle	v Submission Statu	Ý	
Submission type S	ubmission cycle	Submission year	Submission status	Submission date	User	Action
NIR B	TR2	2024	Published	2024-11-11 11:28	Kristina Kaar	VIEW.
NC N	IC7	2024	Published	2024-11-11 10:02	Kristina Kaar	VEW
STR 8	TR1	2024	Rejected	2024-11-11 09:57	Kristina Kaar	VEW
BTR B	TR4, NC10	2024	Published	2024-11-11 02:36	Kristina Kaar	WEW
NIR B	TR3	2024	Published	2024-11-11 02:30	Kristina Kaar	VEW
NIR. B	TR3	2024	Validated, Pending publication	2024-11-04 12 39	Kristina Kaar	VEW
NIR B	TR2	2024	Submitted, Pending validation	2024-10-29 08:42	Kristing Kaar	WITHDRAW
VIR B	TRA	2024	Submitted, Pending validation	2024-10-29 03:27	Kristina Kaar	WITHERAW
BTR B	TRI	2024	Published	2024-10-28 06:04	Kristina Kaar	VEW
BTR B	TRI	2024	Submitted, Pending validation	2024-10-25 09:19	Kristina Kaar	WITHERRAW
NIR B	TR1	2024	Submitted, Pending validation	2024-10-24 09:40	Kristina Kaar	WTHORAW

Until NRSP is fully operational, please submit via email: etf-reporting@unfccc.int Large files (e.g.json) may be provided through shared drive



# Hands-on Training ETF GHG Inventory Reporting Tool

**Tibor Lindovsky** Transparency Division UNFCCC Secretariat Grenada, 1-3 April 2025



## Agenda

## Introduction

- Reporting requirements under the Paris Agreement
- ✓ Common Reporting Tables (CRT)
- Participants' interaction and question/answers
- Hands-on Training on ETF GHG Inventory Reporting Tool
  - Interoperability with IPCC Software



Scan the QR code for exercise guide



## **Session background and objectives**

### Training session

- ETF GHG Inventory Reporting Tool for common reporting tables (CRT) for the electronic reporting of the information in the national inventory reports of anthropogenic emissions by sources and removals by sinks of greenhouse gases
- Hands-on training session to provide a practical experience of the use of the tool and its features

At the end of the training session, the participants will be able to:

- Access to the ETF Reporting Tools
- ✓ Get familiar with the user interface
- Create a new inventory version
- Specify/Edit version settings
- View and access all inventory versions
- Export/import of data entry grids in Excel
- Generate/download common reporting tables
- Work with JSON and interoperability with IPCC Software

### Objective

### Background



United Nations Climate Change

## Introduction



United Nations Climate Change

### **Reporting requirement for GHG Inventories under Paris Agreement**

### Article 13 of the Paris Agreement National inventory report (NIR) of GHG emissions

i. Each Party shall regularly provide information on national inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases

### Decision 18/CMA.1, Annex, Chapter II

National inventory document (NID) and Common reporting tables (CRT)

- i. The national inventory report (NIR) consists of a national inventory document (NID) and the common reporting tables (CRTs).
- ii. Each Party shall report the information referred to in paragraphs 39–46, recognizing the associated flexibilities provided for those developing country Parties that need them in the light of their capacities.

### **Decision 5/CMA.3**

### Adopted:



The common reporting tables (CRTs) referred to in chapter II of the annex to decision 18/CMA.1 for the electronic reporting of the information in the NIRs of anthropogenic emissions by sources and removals by sinks of greenhouse gases, as contained in annex I;

## **Common Reporting Tables (CRT)**

- CRTs for the electronic reporting of information in the NIR
- Set of MS Excel workbook (containing 60 worksheets) for each reported year
- There are three types of tables for each year
  - Sectoral Background Tables (white/orange cells) Need to fill data at this layer
  - Sectoral Report Tables (green cells) Automatically generated
  - Summary Tables/Cross-sectoral Tables (blue cells) Automatically generated



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#### Sectoral Report Tables

#### Summary / Cross-sectoral / Trends Tables

## **CRT** structure

1. Energy	2. IPPU	3. Agriculture	4. LULUCF	5. Waste	
Sectoral background tables	Sectoral background tables	Sectoral background tables	Sectoral background tables	Sectoral background tables	
Table1.A(a)s1 Table1.A(a)s2 Table1.A(a)s3 Table1.A(a)s4 Table1.A(b) Table1.A(c) Table1.A(d) Table1.B.1 Table1.B.2 Table1.C Table1.D	a)s1 a)s2 a)s3 a)s4 b) c) d)Table2(I).A-H Table2(II).B-Hs1 Table2(II).B-Hs2Table3.A Table3.B(a) Table3.B(b) Table3.C Table3.D Table3.E Table3.F Table3.G-J		Table4.1 Table4.A Table4.B Table4.C Table4.D Table4.E Table4.F Table4(I) Table4(I) Table4(II) Table4(IV) Table4.Gs1 Table4.Gs2	Table5.A Table5.B Table5.C Table5.D	Level 3
Sectoral report table	Sectoral report tables	Sectoral report table	Sectoral report table	Sectoral report table	
Table1	Table2(I) Table2(II)	Table3	Table4	Table5	Level 2
-					
Summary	tables	Cross-cutting tables	Trend tables		
United Nations	1 2 3	Table6 Table7 Table8s1 Table8s2 Table9 Flex_Summary	Table10s1 Table10s2 Table10s3 Table10s4 Table10s5 Table10s6		Level 1

### **CRT worksheets**



### **GHG** inventory workflow





## **Common Reporting Tables and Data entry grids**

Data entry grids have categories for all sectors arranged in navigation tree and allows to enter data for the whole time series for a selected category. The data from the data entry grids are mapped to the CRTs on an annual basis when you generate/download the reporting tables.





## Participants' interaction and question/answers



United Nations Climate Change

## **Country Experiences Using the ETF Tools**



United Nations Climate Change

# BTR Finalization & NDC Alignment Workshop & 2025 MRV Hub Annual Meeting

Belize's Experience with the ETF Reporting Tool

# Agenda

Overview

Version Settings

Data Entry

**Concluding Remarks** 

# **Overview**

- Belize submitted its first BTR in January 2025
- CRTs and CTFs were generated using the ETF Reporting Tool
- ETF data input included both IPCC interoperability function for importing json file (all sectors) and manual filing in tables (LULUCF sector)
- 14 excel spreadsheets generated for each year in the time series



## **Version Settings: Flexibility Provisions**

**Tip:** Know which FX Provisions are required prior to starting process

- Understand:
  - <sup>o</sup> FX Provisions required
  - Time series and reference year/period
  - Description of flexibility,
    - clarification of capacity constraint, improvement timeframe and
    - progress in addressing
    - improvement



100

* Response required to continue	
Please specify if any flexibility provisions in I	ight of national capacities will be used.*
Notation key "FX" can only be used in data entry when field	bility provisions are used.
🖲 Yes 🚫 No	
Select the specific flexibility provisions to be	used
Para 58 (Last year in time series) 🕐	
Para SB (Last year in time series) ③ Enabling this option will set the last reporting year as the si the reporting of information for the reporting table 'Flex_Su	ubmission year minus 3 in the annual time series an mmary".
Para 58 (Last year in time series) ③ Enabling this option will set the last reporting year as the s the reporting of information for the reporting table "Flex_Sx The last reporting years in the time series is: ¥ 2022	utenission year minus 3 in the annual time series an memory".
Para 58 (Last year in time series) ③ Enabling this option will set the last reporting year as the is the reporting of information for the reporting table "Flex_Su The last reporting years in the time series is: Y 2022 Para 57 (Annual time series) ③	demission year minus 3 in the annual time series an memory".
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## **Version Settings: Flexibility Provisions**

• FX Provisions selected will impact

data eg. F-gases

#### Para 48 (Reporting F-gases) 💿

Enabling this option will allow the selection of F-gas(es) for reporting and also allow the reporting of information for the reporting table "Flex\_Summary".

#### Select at least one F-gas to apply flexibility\*

The reporting table Table2(II) will be filled with notation key "FX" for the selected gas(es) and its species, if any, for all reporting years in the time series.



#### Summary on the use of flexibility provision

The information provided below will be reflected in the reporting table "Flex\_Summary".

## **Version Settings: Agriculture & LULUCF**

**Tip:** Know the sector specific approach for Ag and LULUCF used



TABLE 3 SECTORAL REPORT FOR AGRICUT	TURE 1			
(Sheet 1 of 1)				
Bash in Julys				
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#### 5 LULUCF

#### · Response required to continue

#### Specify the approach for harvest wood products (HWP)\*

News select one or more approach. Approach A: Block change approach Approach B: Production approach. Approach B1: Apgregate for consumed domestically and exported. Approach B2: Separate for consumed domestically and exported. Approach B2: Atmospheric flow approach.

#### 

#### Approach A. Slock change opproach X Approach II: Production opproach X

#### Specify the approach B \*

Approach E1: Aggregate for consumed domestically and exported.

Approach 82: Separate for consumed domestically and exports t

Selact the approach is account for emissions and removals for the national total \*

Appmach A: Situck charge appmach

# **Data Entry**

Imported .json file to ETF Reporting Tool > Some manual data entry > Exported as .xslx file

🖾 Navigation tree 🕴 0ptions				orest land remaining forest lar	nd <sup>9</sup>							
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# **Final Remarks**

- ETF Tool compatible with import/export of json and .xlsx file types
- ETF Tool configures data from IPCC Software to match CRT format
- Understand FX Provisions and sector approach for version settings
- Accommodates both automated and manual data entry
- Support available from UNFCCC tools team for troubleshooting issues



## **Hands-on Training**





Climate Change

## Housekeeping rules for the training

 For this training session, participants should use their own credentials to access the GHG Inventory Reporting tool. If you don't have access to the tool yet, please join somebody else who does.

✓ The facilitator will firstly introduce the exercise and guide the participants step by step and then test and experience different features of the GHGI Reporting tool.

Please start working on the exercise only when you are asked to do so by the facilitator. Sufficient time will be allocated to perform the exercises.



Please feel free to ask questions while performing the exercises.



## List of exercise for the training

- Exercise 1: Creating an inventory version and specifying version settings
- Exercise 2: Customizing navigation tree (categories for reporting)
- Exercise 3: Data entry (manual data entry)
- Exercise 4: Data entry (Excel export/import)
- Exercise 5: Generation/download of reporting tables
- Exercise 6: Working with JSON and interoperability with IPCC Software





## **ETF Reporting Tools login**

Please login to your account to access the ETF Reporting Tools UNFCCC My Apps <u>https://myapps.unfccc.int</u>





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## Intro: Creating an inventory and version settings (1/2)

- 1. Click "Enter" on the "ETF | GHG INVENTORY Reporting tool" tile.
- 2. Click on "Start" in the "Create blank inventory" tile.

### If you are in the "Data entry" tab

- 1. Click on the "Inventories" tab
- 2. Click on "+ Create version" and follow the steps above.
- 3. Select "Year" for which you want to submit the inventory.
- 4. Toggle on "**Default version**" to make this the default working version for all users within your Party.
- 5. Click "Create Inventory >"



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## Intro: Creating an inventory and version settings (2/2)

- 1. Select "**No**" if your Party does not want to apply flexibility provisions.
- 2. Select "Yes" if your Party wants to apply flexibility provisions, and you can select the specific flexibility provisions.
- 3. Click on "Next" until you complete all version settings
- 4. At the end of version settings, you can enter the "Data entry" page

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## **Flexibility provisions**



Flexibility provisions (Annex to decision 18/CMA.1)	Flexibility provisions for those developing country Parties that need it in the light of their capacities.
<b>Para. 25</b> (Key category analysis)	Identify key categories using a threshold no lower than 85 per cent (instead of 95 per cent)
<b>Para. 29</b> (Uncertainty assessment)	Provide qualitative discussion of uncertainty for key categories both latest inventory year/ trend, instead of quantitatively estimating and qualitatively discussing uncertainty for all categories for at least the starting year and the latest reporting year and the trend.
<b>Para. 32</b> (Insignificance threshold)	Consider emissions insignificant if the likely level of emissions is below 0.1 per cent of total GHG emissions, excluding LULUCF, or 1,000 kt CO2 eq, whichever lower (as opposed to 0.05 per cent or 500 kt CO2 eq). Total emissions for all gases from categories considered insignificant shall remain below 0.2 % total GHG emissions, excluding LULUCF, as opposed to 0.1 per cent.
<b>Para. 34</b> (QA/QC plan)	Encouraged to elaborate an inventory QA/QC plan including information on the inventory agency responsible for implementing QA/QC (as opposed to a requirement to develop a QA/QC plan).
<b>Para. 35</b> (QC procedures)	Encouraged to implement and provide information on general inventory QC procedures in accordance with their QA/QC plan (as opposed to required to implement and provide information).
<b>Para. 48</b> (Reporting F-gases)	<b>Report at least 3 gases</b> (CO2, CH4, and N2O). Also, any of the 4 gases (HFCs, PFCs, SF6, and NF3) included in NDC under Art. 4 or that are covered by activity under Article 6 or have been previously reported (as opposed to reporting all 7 gases)
<b>Para. 57</b> (Annual time series years)	Report data covering the reference year/period for the NDC and, in addition, a consistent annual time series from at least 2020 onward (as opposed to reporting a continuous time series from 1990 onwards).
<b>Para. 58</b> (Last year in time series)	The latest reporting year shall be no more than 3 years prior to submission of the inventory (as opposed to no more than 2 years for all other Parties)

## **Exercise:** Creating version and specifying version settings

### Exercise 1a:

- Login to the application
- Create a new inventory version for the submission year 2025
- Select "Yes" to apply flexibility provisions
- Select para 58 flexibility provisions
- Select para 57 flexibility provisions and select "Do not specify NDC reference year" and select 1990, 2000, and 2010

### **Exercise 1b:**

- Go through the version settings for Energy and IPPU, and <u>do not select any settings</u> (Toggle off)
- Go to the version setting for the Agriculture sector
- Select "Option B (country-specific)" for the cattle categorization
- Select "Approach C" in the LULUCF sector
- Click on "Go to data entry"



Scan the QR code for exercise guide



E1



## **User Interface of GHG Inventory Reporting Tool**

- Inventories To start a new inventory and to configure the properties relating to the inventory, such as submission year, sectors, options and years to be included in the inventory
- **Data entry** For entering and/or editing data in the data entry grids
- **Reporting tables** For viewing reporting tables in Excel, in the format of the agreed CRT, for a particular year
- **QA/QC** Placeholder for various types of QA/QC (not implemented yet)
- Version Unique name of the version you are working on (ISO code, Tool, Submission year, version number)
- Status State of the inventory (e.g., Initiated, Started, QA/QC, Approved, Submitted)
- Default Flag to indicate the common version that all users within a Party are working
- Data synchronized Shows the status of data synchronization
- **Online** Indication if the user is Online or Offline
- Navigation tree CRT category tree as agreed in Annex I to decision 5/CMA.3
- Data entry grids Grids for entering data

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**E2** 

### **Intro:** Customizing navigation tree – Adding country-specific category

- Click on the "Data entry" tab. 1.
- Click on ">" to expand the tree node (category) and "v" to collapse the tree node. 2.
- Click on "+" sign next to the category name to add a sub-category 3.
- Select an item from a dropdown list where the predefined sub-category is available 4.
- OR Enter a country-specific category where the node name says "please specify" 5.

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Adding country specific category

### Intro: Customizing navigation tree Editing/deleting country-specific category (child node)

### Adding category and its name

- 1. Click on the added category and click on the pen icon to edit the child node name
- 2. Rename the child node and Click 'Save name' to confirm rename.

### **Deleting country-specific category**

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- 1. Click on the added category and click on the bin icon to delete the child node.
- 2. Click "Delete" to confirm the deletion.

Note: Only the node/category that you have added can be deleted. Deletion of the node also deletes all data added for that category.

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## **Exercise:** Customizing navigation tree (categories for reporting)

### **Exercise 2a:**

• Find child node "1.A.4.c.iii. Fishing > Gasoline" in the navigation tree

### Exercise 2b:

 Add user-specified node "5.A.2. Unmanaged waste disposal sites > Less decomposable wastes"

### **Exercise 2c:**

- Add user-specified node "3.A.1.A.iv. Other (please specify) > Famous cow" and "3.A.1.A.iv. Other (please specify) > Sad cow"
- Rename "Sad cow" to "Happy cow"

### **Exercise 2d:**

• Delete user-specified node "3.A.1.A.iv. Other (please specify) > Famous cow"





Scan the QR code for exercise guide



## **Data entry in GHG Inventory Reporting Tool**

### Three ways of data entry

- ✓ Manual input into the data entry grids
- ✓ Partial or full import of data using MS Excel
- ✔ Bulk import of data using JSON
  - For connecting with the national system
  - For importing data from IPCC Software

**D** Data are saved automatically in the database in real-time

**C**opy and paste including drag and drop of data in data entry grids

### Automatic data entry validation

- ✔ Either a number or a notation key (NO, NA, IE, NE, C, FX)
- ✓ Number to be separated by a dot (".") to signify a decimal point
- ✔ Number should be between 0 and 1 where fractions are required
- ✔ Number should be between 0 and 100 where the information required is in %
- ✓ Text can be entered as needed to report e.g., AD description (in 1.B.2)



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#### **Intro: Manual data input**

E3

Manual data entry done in data entry grids of each category in the navigation tree. Color codes used in the grids:

- White The user can enter data
- Green Data are automatically calculated by the application
- Brown Formula in these cells are overwritten with user-entered data
- Blue Value cross-referenced
- Grey No input necessary
- Dropdown Data can be selected from the dropdown list
- 1. Click on the "Data Entry" tab.
- 2. Navigate to a node (category) in the tree by using the ">" sign.
- 3. Click on the node (category) to display the data entry grid.
- 4. In the data entry grid, provide the required information in the corresponding cells (for one year), such as AD and emissions.

Values in green cells with formulas, e.g., implied emission factor, are automatically calculated.



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### **Exercise:** Manual data entry (directly in the tool)

#### **Exercise 3a:**

- Go to "1.A.1.b. Petroleum refining > Liquid fuels"
- Fill fuel consumption for several years
- Fill calorific value (choose from the list) and apply subsequent years
- Fill "NO" for  $CH_4$  emissions in the first reporting year.
- + Fill numeric values for  $\rm CO_2$  and  $\rm N_2O$

#### **Exercise 3b:**

- Go to "1.A.1.b. Petroleum refining > Solid fuels"
- Do similar things for this node as in exercise 3a.
- Go to "1.A.1.b. Petroleum refining" and check the aggregation



**E3** 



Scan the QR code for exercise guide

### Intro: Excel data input – Exporting excel tables for data entry

- E4
- This **method allows downloading data entry grids in Excel format and work offline**. It assists users to either check data entered in the software, or to enter/edit data and re-import it into the application.
  - Export of data entry grids can be done for a sub-category, sector, or for the entire inventory.

#### Exporting excel data entry grids

- 1. Click on category that you want to export.
- 2. Click on "Export" and then on "Current grid as .xlsx" to export the single selected grid or "Current sector/subsector as .xlsx" to export the selected category and all sub-categories below the selected category.
- 3. The file will be exported to your local computer.
- 4. You can also export all data entry grids in excel. Click "Options" then "Export all data entry grids as .xlsx".

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### Intro: Excel data input – Entering data in Excel table(s)

The color scheme of the excel data entry grid follows the same color scheme as in the web interface. The excel file should not be modified to add/delete rows or columns or to enter data in the cells other than the specified cells.

#### Entering data in Excel data entry grids

- 1. Open the Excel data entry grid file exported from the GHG Inventory reporting tool.
- 2. Enter the data in the white cells for activity data and emissions.
- The implied emission factor (green cells) is not calculated in the Excel file, but it will be calculated upon importing it into the GHG Inventory reporting tool.
- 4. Save the Excel file after entering the data for importing to the GHG Inventory reporting tool.

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### Intro: Excel data input – Importing Excel tables into the tool

The Excel data import function will only work with Excel files for data entry grids exported from the GHGI Reporting Tool. The user should first export the file from the software in order to import an Excel file with the data. It is imperative that the format and structure of the Excel file exported are not changed.

#### Importing excel data entry grids

- 1. Click "Options" and then click "Import .xlsx file".
- 2. Click on the "**Select**" and select the appropriate Excel file to be imported. You can also drag and drop the file in import window.
- 3. Click on **"Import"** button. This will initiate the data import process, which includes automatic input of data, and recalculation of values in cells with formulas.
- 4. You can check the generated log file for the detail of the import.





### **Exercise:** Data entry with Excel export / import

#### **Exercise 4:**

- 1. For the category "1.A.1.b. Petroleum refining", export "Current sector/subsector as .xlsx".
- 2. Open the exported Excel file (from your download folder)
- 3. Add some numerical values in the exported Excel file for the fuels in the fuel-specific worksheet.
- 4. Add invalid notation key 'PK' for  $CH_{4}$  in the exported Excel file.
- 5. Save the exported Excel file
- 6. Import the Excel file to the GHGI reporting tool
- 7. Check that the data that you have entered in the Excel are imported into the tool.



### Intro: Viewing/download reporting tables

- 1. Click on the "**Reporting tables**" tab.
- 2. Select "Years", "Sectors" and "Tables" to view/download the reporting tables.
- 3. Click "Apply filters". The reporting tables based on the selection above will be available for download.

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### **Exercise:** Downloading common reporting tables (CRT)



#### **Exercise 5:**

- 1. Select a few years from the years dropdown (e.g., 1990 and 1995)
- 2. Select the "Energy" sector or Select "Tables"
- 3. Click "Apply filters"
- 4. You will see the list of reporting tables for each year
- 5. Download individual Excel files from the list or download them as zip file
- 6. Open the Excel file
- 7. Check if the data you entered in the reporting tool is reflected in the reporting tables



## Interoperability with IPCC Software



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### Intro: JSON data input – Export/ Import JSON file

The JSON is the interoperability format used in the GHG Inventory Reporting Tool. It is used for integration with other UNFCCC systems as well as with national systems that follow the JSON schema provided to Parties.

#### **Exporting JSON file**

- In the "Data Entry" tab, click "Options" and then click "Export all data entry grids .json".
- 2. The file will be exported to your local computer.
- 3. You can then modify data in the JSON file, or you can transfer the data into JSON file from your national system.

#### Importing JSON file

- 1. In the "Inventories" tab, click "Import .json file"
- 2. Click on the "**Select**" and select the appropriate JSON file to be imported. You can also drag and drop the file in import window.
- 3. Click on "Import" button. This will initiate the data import process.
- 4. You can check the generated log file for the detail of the import.







### Intro: Interoperability with IPCC Software (1/2)



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 GHG inventory reporting tool**.

Please note the following for the interoperability:

**Generation and Export of JSON file is available in the IPCC software version 2.871 or later.** 

#### In the IPCC Software (GHG estimation software)

- After compiling your GHG inventory estimation: 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.





### Intro: Interoperability with IPCC Software (2/2)

#### In the GHG Inventory reporting tool (reporting software)

- 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.
- 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 be populated **in the data entry grids**.
- 7. You can modify the data, if needed.



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### **Exercise:** Interoperability with IPCC Software

#### **Exercise 6:**

- 1. Log in to your account in the IPCC Software for GHG inventory estimation
- 2. Click "**Export/Import**" > "**Export**" > "UNFCCC CRT" in the IPCC Software
- 3. Click "Generate JSON," and a JSON file is generated and save the JSON file to your computer

**E6** 

- 4. Enter the GHG Inventory Reporting Tool
- 5. In the "Inventories" tab, click "+ Create version"
- 6. Click "Select" in the "Upload a file" tile and select the JSON file downloaded to your computer.
- 7. Specify "Submission year" and "Default version" and click "Create inventory".
- 8. Specify applicable version settings and click "Go to data entry" to start working on inventory.
- 9. Data imported from the IPCC software will already be populated in the data entry grids and you can edit/modify the data if needed.





# Thank you!

Let's keep this conversation going.

Join the **Transparency LinkedIn Group** to stay informed with our latest updates, upcoming events and more at: <u>https://www.linkedin.com/groups/13910606/</u>

Find out more at: <u>https://unfccc.int/Transparency</u> Contact us at: <u>CGESupport@unfccc.int</u> For technical issues, contact: <u>Tools.Support@unfccc.int</u>





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### **Version settings for inventory**



Settings		Explanation			
Flexibility provisions	Application of flexibility provision	Option to apply flexibility for those developing country Parties that need it in the light of their capacities. The notation key 'FX' can be used in data entry only when flexibility provisions are used.			
	Para 58 (Last year in time series)	Set the last reporting year as the submission year minus 3 in the annual time series.			
	Para 57 (Annual time series)	Select the reporting years in the annual time series, including the NDC reference year/period, if applicable.			
	Para 48 (Reporting F-gases)	Select F-gas (HFCs, PFCs, SF6 and NF3) for reporting.			
Energy	Specify calorific value	Auto-fill the selected calorific values for all fuels in sub-categories of 1.A.			
	Fuel(s) Not Occurring	Auto-fill the notation key 'NO' in the data entry grids for the selected fuel(s) in all sub-categories of 1.A.			
IPPU	F-Gas(es) Not Occurring	Auto-fill the notation key 'NO' in the data entry grids for the selected species of F-Gas(es).			
	Bulk addition of F-Gases species	Bulk add the selected F-gas(es) as child nodes in all sub-categories of 2.B, 2.C, 2.E, 2.F, 2.G and 2.H.			
Agriculture	Cattle categorization	Select the options (Option A or Option B) for cattle categorization			
LULUCF	Approach for HWP	Specify the approach (Approach A, Approach B and Approach C) for the harvested wood products reporting			
	Additional years for HWP activity data	Select additional year(s) for reporting HWP activity data			
	Reporting information in Table4(II)	Select the option to report the information in the aggregated or disaggregated way			



### **Intro: Editing version setting**

You can go back to the edit version setting in your inventory to change the parameters you want to report or add/edit flexibility provisions. This will only affect the version that you are editing.

- 1. Go to the **Inventories** tab,
- 2. Identify the inventory for which you want to edit the version setting and click on the gear icon.
- 3. Navigate to the section for which you want to edit the version setting
- 4. Edit the settings you want to change.
- 5. Click on "Next" for additional settings or click "Go to data entry"



# **Participants' Journal**

Reflection and feedback on the day:

- What did I learn today?
- What can I take home with me?
- Where should I focus my energy on Day 2?
- Who would I like to have conversations with during the next days?

# End of Day 1

#### See you tomorrow morning at 9am





