Session 5: Implications of Outcomes from COP26 on further Refinement of the IPCC Inventory Software

8 June 2022

IPCC TFI TSU

ipcc

INTERGOVERNMENTAL PANEL ON climate change

WMO   UNEP

Overview

✓ Upgrades to IPCC Inventory Software to support Paris Agreement implementation, include, among others, **facilitating interoperability** with one of the reporting tools referred to in UNFCCC decision 5/CMA.3.

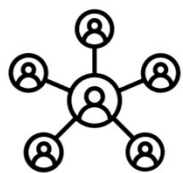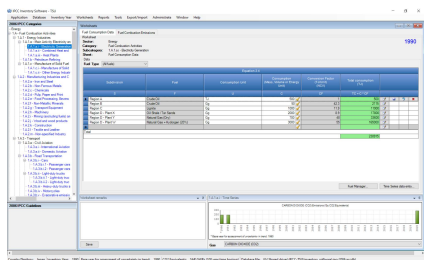| What is the relationship between the IPCC inventory software and Paris Agreement reporting?	What is "interoperability?"	The road ahead…

Background

✓ Beginning 31 December 2024, countries submit a **biennial transparency report (BTR)** consisting of a narrative document and reporting tables/ formats.

✓ Reporting must follow the **Modalities, Procedures and Guidelines (MPGs)** (decision 18/CMA.1)

✓ **Decision 5/CMA.3** mandates the UNFCCC to develop reporting tools for the electronic reporting of the tables and formats, specifically:
  - ✓ Common reporting tables for GHG inventory (Annex I);
  - ✓ Common tabular formats for tracking progress made in implementing/achieving NDCs (Annex 2);
  - ✓ Common tabular formats for financial, technology development and transfer and capacity-building support (Annex 3)

✓ Requests the UNFCCC **to facilitate interoperability** between the reporting tools and the IPCC inventory software and invites the IPCC to participate in effort.

Relationship between Paris Agreement reporting and the IPCC inventory software

National institutional arrangements

IPCC Inventory Software *(optional)*

Interoperability

IPCC inventory software → Calculation tool

UNFCCC tool → Reporting tool

BTR

GHG Inventory
→ *Reporting tool*

Tracking progress made: NDC
→ *Reporting tool*

Impacts and Adaptation

Financial, technology transfer and development and capacity-building support
→ *Reporting tool*

What is "interoperability"?

"The ability of computer systems or software to exchange and make use of information"
--Oxford Dictionary

✓Parties may use IPCC inventory software to calculate GHG emissions/removals

✓IPCC inventory software "speaks" to the UNFCCC reporting tool

　　✓Software generates an output file (e.g. XML) that could be input to the UNFCCC
　　GHG inventory reporting tool

　　✓Data contained in the IPCC inventory software rearranged/mapped to fit the agreed
　　GHG inventory reporting tables in 5/CMA.3. (Annex I)

✓Party QC's the final tables generated by the UNFCCC reporting tool, and makes formal submission using the UNFCCC tool.

WMO UNEP

ipcc
INTERGOVERNMENTAL PANEL ON climate change

Importance of interoperability

IPCC inventory software becomes a central component of a Party's institutional arrangements to facilitate meeting UNFCCC national reporting obligations.

- ✓ Supports Parties in calculating GHG emissions/removals

- ✓ Minimizes error

- ✓ Organizing framework for data collection efforts among entities

- ✓ Enhances transparency

- ✓ Reduces reporting burden

The road ahead...

All are working together to implement the Paris Agreement

IPCC TFI TSU: Update 2006 IPCC inventory software to facilitate current and future reporting

Update IPCC inventory software, incl. for PA reporting
Support for use of software

Interoperability

UNFCCC secretariat: Develop PA electronic reporting tools, including for GHG inventory

Test version of tools (June 2023)

Final version (June 2024)

BTR#1 due (Dec 2024)

Parties: Implement current MRV systems, preparing for PA

Prepare final BURs; initiate PA reporting
Identify needs and gaps

WMO UNEP

ipcc

INTERGOVERNMENTAL PANEL ON climate change

Key messages

✓ The IPCC inventory software is a robust and flexible tool to support countries in preparing a GHG inventory

✓ Upgrades are underway to facilitate its use for calculating GHG emissions in accordance with the MPGs

✓ IPCC TFI TSU is working closely with UNFCCC to facilitate interoperability between tools in the context of the invitation from the CMA (decision 5/CMA.3)

✓ Important to be informed:

– Learn about IPCC inventory software: https://www.ipcc-nggip.iges.or.jp/software/index.html

– Understand the UNFCCC reporting requirements (MPGs and further guidance)

https://unfccc.int/sites/default/files/resource/cma2018_3_add2_new_advance.pdf
https://unfccc.int/sites/default/files/resource/cma2021_10a2_adv_0.pdf

Thank you

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