

Training on preparation and reporting of results of national GHG inventories under the ETF of the Paris Agreement

Tokyo, Japan 22-24 May 2024

Presentation: Design of the inventory improvement plan to facilitate improved reporting and transparency over time

Jaypalsinh Chauhan

Asia Transparency Network Coordinator
CBIT GSP, UNEP Copenhagen Climate Centre

Executed by:



Funded by:



Implemented by:



copenhagen
climate centre

Outline of the BTR

BTR

National GHG inventory*

Progress made in implementing and achieving NDCs*

Climate change impacts and adaptation (as appropriate)

Financial, technology transfer and capacity-building support

Additional information when NDCs and BTRs submitted jointly

Flexibility

Improvements in reporting

ANNEXES

Overview of chapters

- I. National **inventory** document of anthropogenic emissions by sources and removals by sinks of GHGs (**MPGs, para. 17-58**)
- II. Information necessary to **track progress made in implementing and achieving NDCs** under Article 4 of the Paris Agreement (**MPGs, para. 59-103**)
- III. Information related to **climate change impacts and adaptation** under Article 7 of the Paris Agreement (**MPGs, para. 104-117**)
- IV. Information on financial, technology development and transfer and capacity-building support **provided and mobilized** under Articles 9–11 of the Paris Agreement (**MPGs, para. 118-129**)
- V. Information on financial, technology development and transfer and capacity-building **support needed and received** under Articles 9–11 of the Paris Agreement (**MPGs, para. 130-145**)
- VI. Information to be reported **when NDCs and BTRs are submitted jointly every four years (1/CP.24, para. 43)** (*vulnerability assessment, cc impacts and adaptation measures-if not reported in section III; RSO; education, training and public awareness*)
- VII. Information on **flexibility (MPGs, para. 6)** (*Indication of (1) reporting provisions to which self-determined flexibility is applied, (2) capacity constraints in relation to the application of flexibility and (3) self-determined estimated time frames for improvements in relation to those capacity constraints*)
- VIII. **Improvements in reporting over time (MPGs, para. 7-8)** (*areas of improvement, how these will be addressed, which areas are related to flexibility provisions, reporting-related CB support needs*)
- IX. Any other information the Party considers relevant to the achievement of the objective of the Paris Agreement, and suitable for inclusion in its BTR

Annexes: (i) **Technical annexes for REDD+**, as applicable; (ii) **CRTs for electronic reporting of NIR**; (iii) **CTFs for electronic reporting of tracking progress in NDCs, FTC support** provided/mobilized and/or needed and received; (iv) Information in relation to the Party's **participation in cooperative approaches**, as applicable

GHG Inventory Management Tools (IMT)



Executed by:



copenhagen climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



INTERNATIONAL
CLIMATE
INITIATIVE



**CLIMATE
TRANSPARENCY
PLATFORM**

Introduction to Inventory Improvement Plan

- Each country should have a plan to improve the quality (TACCC) of inventory over time (continuous improvement).
- The improvement plan is consistent with the reporting requirements of the ETF, including reporting on flexibility and reporting on areas for improvement.

Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



INTERNATIONAL
CLIMATE
INITIATIVE



Inventory improvement plan

Improvements:

- Potential,
- Planned, and
- Implemented improvements.

Plan: Specific actions

- Compilation
- Prioritization
- Synthesis
- Future implementation

Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



INTERNATIONAL
CLIMATE
INITIATIVE



Inventory improvement plan

Source of ideas for improvement:

Own national team

External contributions:

- UNFCCC QA processes (BUR assessments, future Technical Expert Reviews (TER))
- Other QA processes

The improvement plan must assign a priority level.



Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



Inventory improvement plan

Benefits:

- Find better data
- Facilitate coordination
- Train current staff members
- Enhance QA/QC procedures
- Guide new staff
- More efficient use of resources

Source: based in US-EPA (2023)

But resources needed to implement the plan!

Staff availability

Staff expertise

Cost

Time

Responsible

Important to prioritize

Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



Documentation of an improvement plan

An improvement plan may include a simple table that contains, for example:

- **Categorisation:** include sector(s) and type of improvement activity (e.g. improved QA/QC processes, improved uncertainties or key category analysis, improved activity data, shift to higher-level methods).
- **Name:** short and unique, ideally reflecting the spirit of improvement.
- **Description:** includes information about the deadlines and technical details for its development.
- **Origin:** recommendation or suggestion of experts or international review process.
- **Status:** suggested, proposed, planned, in progress, implemented, etc.
- **Priority:** Key category analysis can be used as input.
- **Owner:** the person or entity responsible for implementing the improvement.

Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



INTERNATIONAL
CLIMATE
INITIATIVE



Documentation of an improvement plan

TABLE 1.8 (NEW)

SUGGESTED DESCRIPTION OF POTENTIAL, PLANNED AND IMPLEMENTED IMPROVEMENTS IN INVENTORY IMPROVEMENT PLAN

1. Categorisation	2. Name	3. Description	4. Origin	5. Status	6. Priority	7. Owner

1. The **categorization** of the improvement. This could include the sector or categories, and the type of improvement activity (e.g. improved QA/QC processes, improved uncertainties or key category analysis, improving activity data, moving to higher tier methods).
2. A short unique **name**.
3. Improvement **description** including information on timeframes and technicalities for development.
4. The **origin** of the improvement (e.g. recommendation or expert suggestion or international review process).
5. The **status** (e.g. suggested, proposed, planned, work in progress, implemented) of the improvement.
6. **The priority** of the improvement (informed by the *key category* analysis).
7. The **owner** is the person or entity responsible for implementing the improvement.

Source: 2019 Refinements to the 2006 IPCC Guidelines for National GHG inventories

Executed by:



copenhagen climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



INTERNATIONAL CLIMATE INITIATIVE



EPA Improvement Plan Template

- The [EPA National Inventory Systems Toolkit](#) includes a specific template for the inventory improvement plan.
- The template provides guidance on efforts to increase the quality (TACCC) of future inventories.
- The workforce will be able to report on overall inventory improvements, including institutional capacity-building in the coming years.
- Improvements can be identified through documentation of existing institutional arrangements, category-by-category analysis of methods and data, QA/QC procedures, key categories and the archiving system.
- [Table 7-1](#) identifies improvement options and their priority level, while [Table 7-2](#) proposes inventory improvements consistent with the high priority options in Table 7-1.

Source: U.S. EPA Toolkit for Building National GHG Inventory Systems

Executed by:



copenhagen
climate centre

Funded by:



Implemented by:



Partnership on Transparency
in the Paris Agreement



Ministry of the Environment
Government of Japan

Supported by:



on the basis of a decision
by the German Bundestag



Table 7-1. Options for improvements

N°	Key Category (yes/no)	Category Code and Name	Issue	Improvement Option	Priority of Improvement	Timing of Improvement	Additional Information Needed for Improvement
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Source: U.S. EPA Toolkit for Building National GHG Inventory Systems

Executed by:



copenhagen climate centre

Funded by:



Implemented by:



Partnership on Transparency in the Paris Agreement



Ministry of the Environment Government of Japan

Supported by:



on the basis of a decision by the German Bundestag



Thank you for your attention!

For more information:
<https://climate-transparency-platform.org>

Jaypalsinh Chauhan
Asia Transparency Network Coordinator
CBIT GSP, UNEP Copenhagen Climate Centre

Executed by:



Funded by:



Implemented by:



copenhagen
climate centre