



Session III: Time Series Estimates and Projection Guidance

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Time Series Estimates

- A listing of emission estimates for a number of years
- In order to allow the comparison of emissions between different years of the inventory, the time series must be internally consistent, i.e., the methods, emission factors and assumptions must be the same for all inventory years.
- Ideally, the data sources used for the activity data will be the same for all years, but this is not always possible.

(UNDP, 2005 “Managing the National Greenhouse Gas Inventory Process”)



Time Series Estimates

- Under the UNFCCC, Non-Annex I Parties shall estimate national GHG inventories:
 - for the year **1994** (or alternatively for **1990**)
for the **initial national communication**
 - for the year **2000**
for the **second national communication**
 - The least developed country Parties could estimate their national GHG inventories for years at their discretion.
- Thus, time series estimates are not required.



Projection (of GHG emissions)



- Development of **future** time series based on certain assumptions
 - appropriate “drivers” and reasonable scenarios
- Non-Annex I Parties are not required to do projections of GHG emissions
 - No mention of “projection” in the UNFCCC Guidelines for Non-Annex I National Communications
- *However...*



Not required, nevertheless...



- Apparently, many WGIA colleagues are interested in “time series” and “projection” being taken up in WGIA.
- Some countries reported time series and/or projections of GHG emissions/removals already in their initial national communications.



Country	Sectors	Gases	Projected year	Time series
Cambodia*	LUCF, Agriculture, LUCF, Waste	CO ₂	2020	
Indonesia	National and sectoral (Energy, Forestry, Agriculture, Waste)	CO ₂ , CH ₄ , N ₂ O	2025	1990-1994
Korea (NC2)	Energy, Agriculture, LUCF, Waste	CO ₂ , CH ₄ , N ₂ O	2020	1990,1995,1998-2001
Lao*			-	
Malaysia	Energy	CO ₂	2020	
Mongolia	Energy, Agriculture, Forestry	CO ₂ , CH ₄	2020	1990-1998
Philippines	Energy, Industry, Agriculture, LUCF, Waste (Solid waste, wastewater, human sewage)	CO ₂	2008	
Thailand	Energy, Agriculture, Forestry	CO ₂ , CH ₄	2020	
Vietnam	Energy, Agriculture, Forestry	CO ₂	2020	



Why...?

- To analyze the impact of policies & measures on GHG emissions/removals
 - Development of time series estimates is essential.
- To formulate an appropriate mitigation plan
 - Projections of GHG emissions/removals are necessary.
- High quality time series estimates would lead to high quality projections.
 - Analysis of time series would help selection of appropriate drivers to be used for projections.



Presentations are going to be made by:

- Japan, on the country's experience (particularly on the Kyoto Protocol Target Achievement Plan)
- Thailand, on the country's experience
- Indonesia, on the country's experience

Let's discuss and consider together:

- What are barriers to development of time series and projections of GHG emissions/removals;
- What actions would be effective to remove those barriers; and
- How we can cooperate within the WGIA framework?

Now, let's start this session!!

