



Training Workshop: Preparation and Submission of National Inventory Reports under the ETF of the Paris Agreement

Bogota, Colombia 23-25 July 2024

Exercise: Exercise: Inventory Improvement Plan (45 minutes)

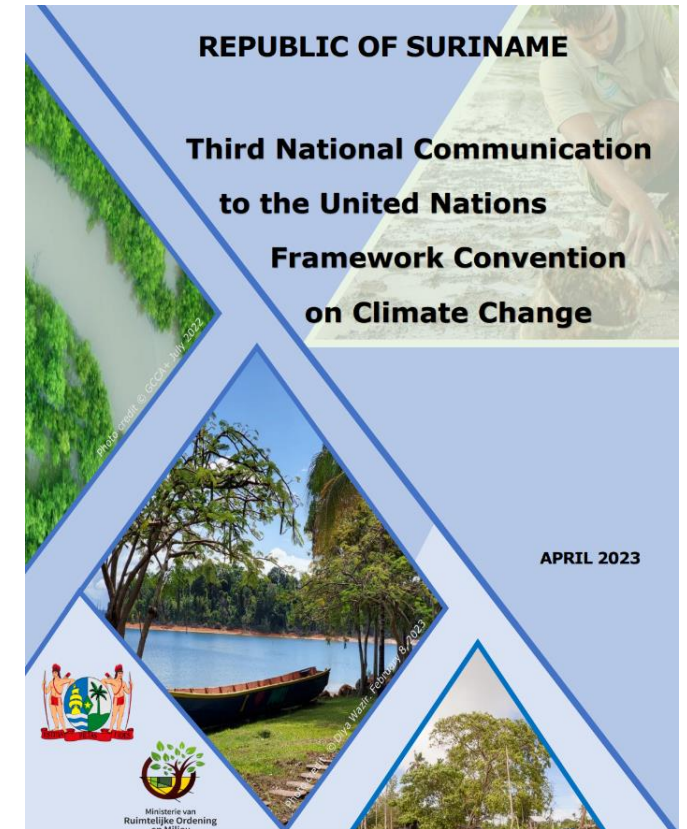
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Instructions

You will find National GHG Inventory Improvements Plans (IIP) recently presented by 3 countries:

- **Jordan's 4th National Communication (2023)**
- **Suriname's 3rd National Communication (2023)**
- **Ghana's 5th NIR (2022)**



Instructions

After examining them all, discuss the following aspects with your colleagues:

#1. What are some of the main common elements of these 3 IIP?

#2. Can the IIP presented be considered complete or are there some missing elements that you would add?

#3. What would be your recommendation to enhance the transparency of each of these 3 IIP?

#4. Based on these 3 IIP and in your experiences with IIP, write the titles of a table of contents for the IIP of your own country

Fill the slides at the end of this presentation with your answers and comments.

Inv. Improvement Plan Jordan



2.10 Future Improvement Plan

The GSP reviewer identified several actions. The improvements are listed below and are rated according to urgency, from immediate to short term and long-term actions:

- The activity data used in the estimate, especially in the subcategories identified as key or significant, to use tier 2, and should be improved as much as possible. In addition, actions to improve data, methods, EF, and other estimation parameters (OEP) should be prioritized in key categories, to use tier 2 (especially in the subcategories 2F1a, 4A Solid Waste Disposal, 3A1c Sheep, and 3B Land). **(Short term and long term)**
- The documentation boxes and worksheet remarks included within the software should be completed. **(Short term)**
- The completeness of the inventory should be improved by: **(short term to long term)**
 - Improving the estimation and reporting of precursor gas emissions in future inventory submissions (activity data and EF are mostly available).
 - Incorporating among the precursor gases, the estimation of NH₃ emissions. This would make it possible to calculate in category 5A the indirect N₂O emissions derived from the atmospheric deposition of Nitrogen from non - agriculture sources.
 - The precursor gas emissions of these subcategories from the second-order subcategories 1.A.3.a.i - International aviation and 1.A.3.d.i - International waterborne navigation (international bunkers) should be estimated and reported using the notation key NE (not - estimated) in the reporting tables, as necessary.
- The key analysis -trend assessment should be used, after improving issues related to the time series of the inventory. Also, qualitative criteria should be applied to the categories located at the threshold of 95-97% of cumulative emissions. **(Short term)**
- Prepare a QA/QC and verification plan and manual for the coming inventory **(short term)**.

Inv. Improvement Plan Suriname

Table 41 Recommendations for improvement of the GHG inventory

Sector	Recommended improvements
ALL SECTORS	Improve the activity data collection by raising awareness on the GHG inventory among stakeholders and by closely engaging data providers.
	Formalize the collection of activity data through instruments such as legal contracts, MoU etc.
	Develop a capacity building program in collecting and storing activity data, in particular targeting data providers
	Develop capacity building program targeting GHG inventory experts (e.g, about the 2006 IPCC Guidelines, performing uncertainty assessments etc.)
	More in-depth and one-on-one sessions are needed with regards to using the IPCC software
	Develop a QA/QC plan for the GHG inventory.
	Establish arrangements for implementing QA/QC procedures, manage and operate the inventory database, and document and archive inventory information and the operation of the inventory
	Develop and implement a Monitoring, Reporting and Verification (MRV) tool for the GHG inventory. A transition from default EFs and Tier 1 methodologies to country-specific emission factors and Tier 2 or 3 methodologies is needed with particular focus on key categories.
ENERGY	Conduct studies to determine the emissions factors for electricity generation.
	Perform surveys on vehicle characteristics for the road transport sector (e.g. fuels economy baseline for different classes of vehicles.).
	Perform surveys on both maritime and aviation activity data (both national and international).
	Develop an approach to collect activity data on bio-fuel consumption.
	Develop an approach to collect activity data up to Tier 2 for all possible sources relevant to Suriname within the Manufacture and Industry category
IPPU	Promote an understanding among industrial owners and other stakeholders regarding the significance of GHG estimation
	Develop an approach to collect activity data up to Tier 2 for all possible sources relevant to Suriname within the IPPU category.

Inv. Improvement Plan Ghana

Table 100: List of improvements list for the AFOLU sector

Improvement tasks	Responsibility & Collaborators	Priority	Next Step	Target	Assumptions/ Status
Estimate net emissions from Harvested Wood Product (HWP)	FC and EPA	High	Assess data availability and determine the methodological choice for the estimating HWP net emissions	Before 2024	Use existing tier 1 IPCC methodology to estimate HWP
Develop land-use schemes with definitions (including the possibility of delineating tree crops from annual crop areas)	FC, EPA, CERSGIS, Geomatics-KNUST, FAO, NATU-KNUST, Cocoa Board RMSC, FC	High	Explore the possibility of linking with the ongoing land use mapping projects.	Before 2024	Funding secured on time. Funding is not secured at the time of publishing the NIR5
Produce land-use maps and LUC matrices	FC, AFOLU Team, CERSGIS, RMSC	High	AFOLU technical team from the collaborating institutions would proceed with these activities following the initial action.		
Overlay land cover maps with maps of ecozones, climate, and soil and recalculate land-use change maps		High			
Integrate maps on perennial crops (mainly cocoa and rubber) in land-use maps and recalculate		High			
Include wetlands in the change analysis for the dominant land use and account for the associated emissions.		High			
Cross-check area estimates from LUC matrices with data available at the plantation unit.		High			
Include the annual fire hotspots and overlay them on the land-use maps to assign disturbances to land-use subcategories	FC, Ghana National Fire Service, NADMO, District Assemblies	High	Link with AGRHYMET	Next Inventory	FC to initial contact with AGRHYMET supported by EPA
Update existing biomass figures	FC and FORIG	High	EPA to follow up with FC and FORIG	Next Inventory	Contact FORIG

Your answers

#1
Common elements among the IIPs
-
-
-
-

#2	
Elements to add to the IIP	
Jordan IIP	-
	-
Ghana IIP	-
	-
Suriname IIP	-
	-

Your answers

#3	
Recommendations to enhance transparency in the IIP	
Jordan IIP	- -
Ghana IIP	- -
Suriname IIP	- -

#4					
Headings of your own IIP table					



Thank you for your attention!

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