SEPA

Transparency Accelerator for Greenhouse Gas Inventories

I&NDC Network 2021 Introductions and Research Collaboration Meeting June 2021 John Steller – U.S. Environmental Protection Agency

Transparency Accelerator for GHG Inventories

- Transparency Accelerator for Greenhouse Gas (GHG) Inventories Project
 - International capacity-building initiative of the U.S. Government led by the U.S. Environmental Protection Agency (EPA)
 - Timing: 2019-2023
- Designed to help improve the technical capacity of developing countries to transition to the **2006 IPCC Guidelines** to estimate, track, and report GHG emissions and removals
 - Support future reporting under the Enhanced Transparency Framework
- Focused on:
 - Development of tools and templates for general use
 - Bilateral capacity-building technical support
- Project covers all GHG Inventory categories, including cross-cutting and national inventory system support – with a special emphasis on the AFOLU sector

EPA's Capacity Building Approach

- Build strong institutional arrangements as necessary for ensuring a sustainable inventory system
- "Learning by Doing Approach"
- Avoid duplication of work and find collaboration opportunities with other donors
- Utilize EPA and partner GHG Inventory development and IPCC Guidelines expertise
- Utilize EPA's National GHG Inventory System Toolkit:
 - EPA has taken key elements of the UNFCCC and IPCC guidance and condensed them into easy-to-use National Inventory System Templates



https://www.epa.gov/ghgemissions/toolkitbuilding-national-ghg-inventory-systems

Updates to ALU Tool

- Agriculture and Land Use Greenhouse Gas Inventory (ALU) Software
- Guides an inventory compiler through the process of estimating greenhouse gas emissions and removals related to agricultural and forestry activities

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https://www.nrel.colostate.edu/projects/alusoftware/home/

Updates to ALU Tool

- In collaboration with the U.S. Forest Service and Colorado State University
- Planned updates:
 - Round out 2006 IPCC Guidelines
 - Add an Incorporate the 2013 IPCC Wetlands Supplement
 - economic mitigation component
 - Develop Import/Export data functions to align with IPCC Software and future BTR/CRT table reporting needs
 - Develop online version, develop Application Programming Interface (API)
 - Improve user-interface and overall user-friendliness of tool
 - Develop tutorials, translation, trainings

Land Representation Workflow Schema

- Lesson learned from previous capacity-building projects:
 - How do you address inconsistencies between datasets?
 - There is a need for guidance on the use of different datasets and how to combine information to develop a country's land representation
- Land representation schema
 - Utilize U.S. experiences in developing a land representation for the GHG Inventory, working with the U.S. Forest Service and other key partners
 - Develop a standardized workflow that can assist countries in harmonizing datasets developed by different entities, often for different purposes
 - Produce consistent estimates and data products for the representation of lands consistent with IPCC methods and UNFCCC reporting requirements