

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

[BENIN]

Summary of relevant activities, future priorities and capability needs.

Input to 2023 Livestock Research Group Meeting
Lyon, France

Relevant activities (1)

INSTITUTIONAL MECHANISM FOR THE CONTINUOUS ESTABLISHMENT OF NATIONAL COMMUNICATIONS AND BIENNIAL UPDATED REPORTS.

☐ Establishment of a national inventory system (NIS)

- ✓ Manual of procedures for the preparation and management of national GHG inventories in Benin;
- ✓ The decree on the creation, attributions, composition and functioning of the SNI within the framework of the implementation of the UNFCCC in the Republic of Benin

☐ Establishment of thematic teams covering all other components of BENIN national communications and RBAs

☐ Alignment of a national Measurement, Notification and Verification system with the institutional mechanism for the development of NCs and BURs (components of GHG inventories, mitigation measures, needs observed and support received)

Relevant activities (2)

□ Institutional arrangements within the NIS:

- ✓ Around forty national experts from around twenty public and private institutions
- ✓ A main national entity (General Direction of Environment and Climate);
- ✓ A pool of experts;
- ✓ A national inventory team;
- ✓ Thematic groups (Energy; Forestry; Agriculture; IPPU; Waste; Archiving).

□ Methodologies used for GHG inventories

- ✓ IPCC Guidelines, 2006 (TCN, PRBA)
- ✓ Methodological level 1 (Tier 1) of the IPCC for all sub-categories
- ✓ Improvement: IPCC Methodology Level 2 (Tier 2) for: Enteric fermentation and manure management in cattle (agriculture sector); Production of cement (IPPU sector)

Relevant activities (3)

□ General assessment of GHG inventory completeness

- Overview of the completeness of the GHG inventory in Benin was presented in the PRBA
- Categories that are not reported:
 - ✓ The reasons for their omission have been explained in the inventory in order to allow future inventories to take them into account in the inventory improvement plan.

Two reasons:

- Lack of activity,
- Unavailability of data and information needed for emissions and removals estimate

□ Performing quality control/quality assurance procedures to the GHG inventory

- ✓ IPCC Tier 1 quality control/quality assurance procedures

□ IMPLEMENTATION OF A LOW-CARBON AND RESILIENT CLIMATE CHANGE DEVELOPMENT STRATEGY (2016-2025)

- ✓ **Overall objective:** Contribute to the sustainable development of Benin, by integrating climate considerations into all of Benin's strategic sectoral operational plans
- ✓ **3 Pillars of implementation**
 - Pillar 1: Strengthening the resilience of local communities and agricultural production systems
 - Pillar 2: Reduction of anthropogenic GHG emissions and improvement of carbon sequestration potential
 - Pillar 3: Climate risk reduction

Capability needs

□ Capacity building will consist of developing skills and improving institutional capacities

Agriculture sector

Building capacity needs

Integration of Climate Change issues into agricultural development policies, plans and programs

Training of rural development actors (executives, technicians, producers, local authorities) on the issue of climate-agriculture relations.

Support for adoption of improved sustainable land management technologies

Use of agro-climatology models (capacity building in agro-climatic risk modeling, familiarization with DSSAT, SARRAH software, etc.).

Popularization of local knowledge in the management of agro-climatic risks or crises.

Monitoring and evaluation of agricultural and hydro-agricultural development projects.

Training of supervisory staff and producers on the production systems of the main food crops integrating techniques of integrated fertility management and soil moisture conservation

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