# Sharing Africa Experience on GHG Inventory and MRV of Emissions

focus on the role of "integrated climate data management" In Ghana

Environmental Protection Agency, Ghana

### Snapshot of the National System for GHG inventory



GHG Emissions – TNC and BUR – Preparation of National Inventory report – 90% completed

Started third party informal reviews AFOLU completed – EU LULUCF Expert Energy review is on-going (AEA-Ricardo under Information Matters Project)

#### Completed national GHG inventory from 1990-2012 by sector working group.

**Status** – (a) inventory data collected, processed and evaluated, (b) 2006 IPCC guidelines and software, (c) produced inventory results 1990-2012 for 5 economic sectors, (d) National Inventory is compiled.

National and International process will kick in August (National review through the "internal disclosure mechanism" will focus on "reality check", "key policy issues" and areas that need in improvements (including data gaps).



What we have set out to do?

Put in place an "integrated climate data management" system that:

✓ Provides reliable basis for climate change planning

✓ Serves as framework for M&E or MRV

✓ Integrates with national statistics platform

✓ Kick start "facility and "national" scale GHG accounting

# Key elements of an integrated climate data management system: Ghana's vision



We keep it simple but aim at consistent improvement towards "dynamic climate data management system" in the future.

We try to clearly define: (a) why we need documentation, (b) what to document, (c) how to document, (d) who documents, (e) where/how to store and retrieve

#### On-climate data – three interfaces

WELCOME

formats.



The D-Pal/s is the dashboard of policies and measures of all climate related policies and measures in the productive economic sectors in Ghana. The dashboard has a tracker which is meant to track the progress of implementation towards attainment of its goals. The impacts, achivement and envisaged actions toward achiving its strategic objectives are also contained in the database.

#### A. GHG emission database

 Contains archived data (mainly activity data) used for generation of national GHG inventory estimates.

- Designed to help improve archiving of all data used in the GHG inventory and also ensure that general public has access in near real time.
- Apart from providing improved public access to the emissions data, database will also serve as a hub for data-sharing among the data providers.
- Contains all activity data used in all GHG inventory sectors from 1990-2012
- Also contains primary data inputs from disaggregated sub-categories to the sector level.
- General public has access to the open-source end of the database which contains publicly- available national data. Access to the primary data section is restricted.

### B. Domestic Electronic Registry System (DERS)

- DERS is a centralized data point for climate change and related initiatives in Ghana.
- Contains information on all climate change initiatives in Ghana that have been implemented, are under implementation, or are being planned.
- Includes information on the sources of support available to the initiatives and monitoring of impacts of implementation
- At this initial stage, the DERS is anchored on a simple spreadsheet designed to support: (a) tracking of climate change initiatives and support in Ghana, (b) assessment of overall impacts, and (c) disclosure to the general public semi-annually.

As the data from the sources increase, the database will be regularly updated/upgraded to accommodate it.

#### C. Dashboard on climate policies and measures (D-PAMs)

- D-PAMs captures all climate-related policies and measures in productive economic sectors in Ghana eg. Agticulture and Energy
- The dashboard has tracker to assess progress of implementation towards attainment of goals.
- The impacts, achievement, and envisaged actions toward achieving its strategic objectives are also included.
- Useful for part of "nationally determined contributions"

#### Data flows into the database.....example of GHG related data

Transmission and storage of "documentation"



Hint: All "specifics" are contained in the MOUs signed between the GHG inventory office and the inventory team institutions

#### Functional Institutional Arrangements for Domestic Monitoring Reporting and Verification System



#### "Some lessons learnt so far"

- Slow pace in establishing "data sharing network".
- Data generation can be expensive. Funding is a problem. Our priority
- Difficulty in data sharing
- Data confidentiality??? Industry
- Setting up stand-alone IT infrastructure and maintenance can be expensive.

## Thank you