

# **OVERVIEW OF ZAMBIA'S INSTITUTIONAL ARRANGEMENTS FOR GHG NIS**



## **REGIONAL AFRICAN WORKSHOP ON REDD+ NATIONAL FOREST MONITORING SYSTEMS AND GREENHOUSE GAS (GHG) NATIONAL INVENTORY SYSTEMS**

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**Livingstone, Zambia**



# Outline



- Introduction
- State Of Play Of GHG Inventory In Zambia
- GHG Institutional Arrangement Background
- Migration From Project Based To Institutional Base GHG Inventory System
- Institutional Arrangement For GHG National Inventory System
- Challenges



# Introduction



- Article 4, para 1(a) and Article 12, para 1(a), of the UNFCCC provide for each Party to report national GHG emissions to the Conference of the Parties (COP).
- A GHG inventory is an accounting of GHGs emitted to or removed from the atmosphere over a period of time.
- GHG inventories help to fulfil the obligations of the Convention by facilitating the formulation and implementation of appropriate mitigation and adaptation actions (policies, strategies, etc)

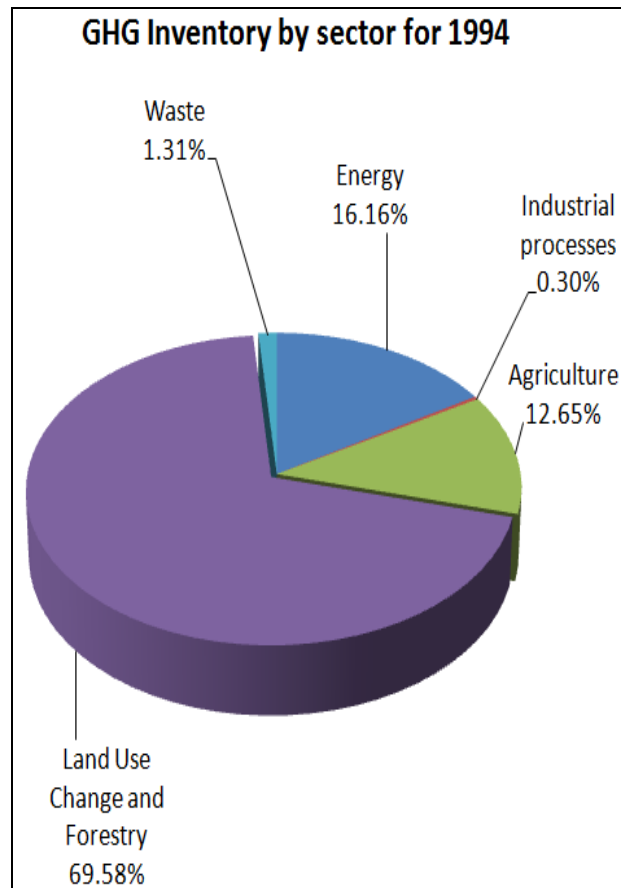


# OVERALL STATE OF PLAY OF GHG INVENTORY IN ZAMBIA

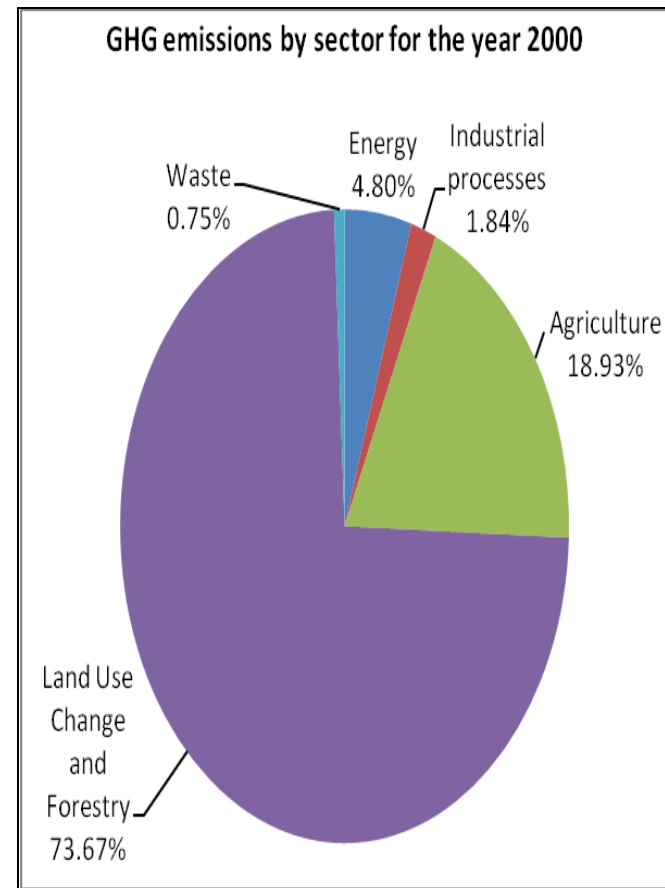
	Date submitted/Completed/Status	GHG Inventory Base Year	IPCC Guidelines Used
Initial National Communication	2004	1994	1996
Second National Communication	Awaiting cabinet Approval	2000	2000

# SECTORAL GHG DISTRIBUTION

Initial National  
Communication-1996  
Guidelines



Draft Second National  
Communication-IPCC 2000  
Guidelines



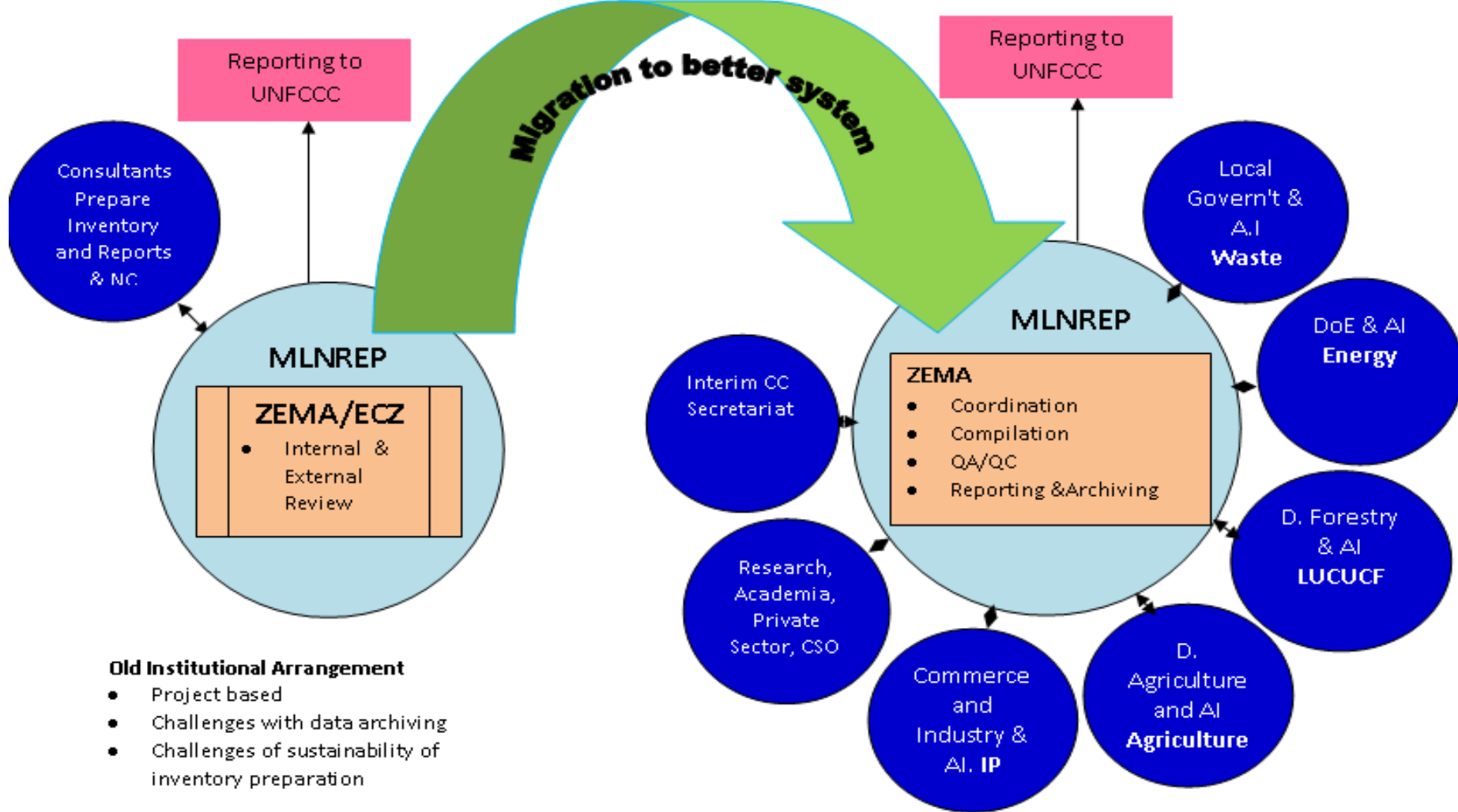
# GHG INSTITUTIONAL ARRANGEMENT BACKGROUND



- **The proposed GHG Institutional Arrangement(IA)** for Zambia was developed at the LECB and Second National Communication Validation Workshop held from 2-5 April 2013
- Workshop participants discussed the proposed framework and came up with an agreed final arrangement which is currently undergoing operationalisation
- **Justification**
  - Desire to put in place a more sustainable inventory preparation process
  - Need to improve on quality of GHG inventories
  - Need to move from project based GHG inventory preparation to an institutionalized based Inventory preparation arrangement
- **Key Elements for Success of GHG Institutional Arrangement**
  - Clearly defined elements, roles and responsibilities of all actors to be party to the arrangement
  - Strong National Inventory System (NIS) with a strong Central Coordinating Agency
  - Collaborating arrangements for smooth data sharing from institutions,/organisations, private sector as data providers



# MIGRATION FROM PROJECT BASED TO INSTITUTIONAL BASE GHG INVENTORY SYSTEM



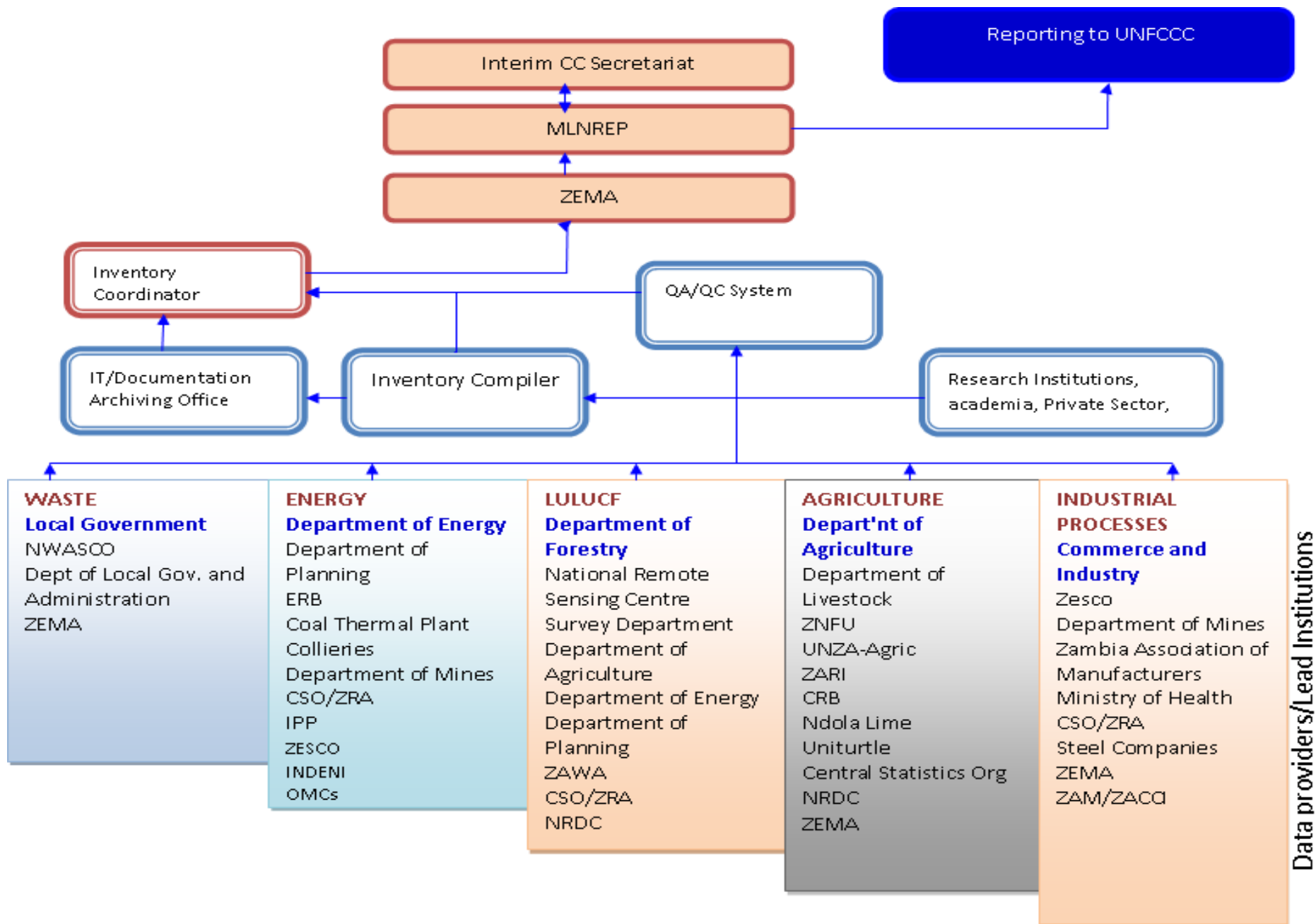
## Old Institutional Arrangement

- Project based
- Challenges with data archiving
- Challenges of sustainability of inventory preparation

## New Institutional Arrangements Arrangement

- Institutionalized
- Sustainable Inventory Preparation
- Consistency of reported emissions
- Standard quality of emission
- Better planning preparation and management of inventory
- Promotes wider capacity building

# INSTITUTIONAL ARRANGEMENT FOR GHG INVENTORY SYSTEM





# GHG INSTITUTIONAL ARRANGMENT FOR ZAMBIA WITH ROLES AND RESPONSIBILITY



- **National GHG Entity-ZEMA**
  - Institution with legal mandate and responsible to produce GHG inventory
  - Appoint overall GHG Inventory Coordinator
- **Inventory Coordinator**
  - Oversee entire inventory
  - Responsible overall preparation including supervisory roles over inventory compiler, documentation and archiving officers and QA/QC Systems implementation
- **Sector Team Leaders(Lead Institutions)**
  - Responsible for inventory planning and inventory preparation for specific sources including;
    - Assessment of sources, determining priorities, and assigning responsibilities



# GHG INSTITUTIONAL ARRANGMENT FOR ZAMBIA WITH ROLES AND RESPONSIBILITY CONT'D



## Sector Team Leaders(Lead Institutions) Cont'd

- Establishing rules and procedure for source preparation
  - Procedures for data collection and sharing both within, and among, sources
  - File management procedures, especially naming conventions and version control;
  - Adherence to GPG
  - Editorial directions
  - Additional information on staff and responsibilities as needed
- Establishing source(s) preparation schedules
- Completion of source(s) preparation instructions and distributing supporting materials
- Implementation of QC systems



# GHG INSTITUTIONAL ARRANGMENT FOR ZAMBIA WITH ROLES AND RESPONSIBILITY CONT'D



- **Sector Team Leaders(Lead Institutions) Cont'd**

- Provide necessary guidance and technical support to Source members
- Recommend legal and institutional frameworks, as well as coordination mechanisms that ensure sharing of information
- Recommend mechanisms at the national and institutional levels to link sector GHG inventories to other processes such as sector NAMA development
- Oversee the implementation of a QC system for processes used and data provided from sources to ensure transparency, accuracy, completeness, comparability and consistency
- Attend national exchange workshops and contribute to technical discussions on GHG inventory and National Communications work



# GHG INSTITUTIONAL ARRANGMENT FOR ZAMBIA WITH ROLES AND RESPONSIBILITY



- **Inventory Compiler**

- Receive of all the inventory from source(s) teams (i.e., all the spreadsheets and text sections)
- Responsible for consolidating into one cohesive document.
- Create the summary tables and text and
- Complete the key source analysis.

- **QC Officer/QA-Independent:**

- Performs quality control during process for GHG inventory and quality assurance of the inventory

- **Archiving Officer**

- Ensuring archiving procedures are performed
- Archiving of all data and information



# CHALLENGES



**Challenges encountered in the process of migrating from project based to institutionalised system include the following:**

- Limited human capacity as some of the staff double up for other programmes or activities within their respective institutions
- Convincing officers in sector lead institutions to perceive additional work on GHG preparation to be part of their work
- Convening meetings is a challenge owing to the busy schedules of experts who also have other assignments to undertake
- Some Departments such as Department of Housing and Infrastructure and the Ministry of Local Government which are the sector lead for waste have very lean staff
- The technical nature of the GHG work is a challenge in itself and requires careful and detailed orientation of staff to the process and methodologies
- Limited number of champions in respective sectors to spearhead GHG inventory work



# Thank You!

