

MINISTRY OF WATER AND ENVIRONMENT



Climate Change Department

MEMORANDUM OF UNDERSTANDING

BETWEEN

THE MINISTRY OF WATER AND ENVIRONMENT

AND

THE MINISTRY OF ENERGY AND MINERAL DEVELOPMENT

**CONCERNING: DATA SHARING FOR THE NATIONAL
GREENHOUSE GAS INVENTORY**

2020

This Memorandum of Understanding (MoU) is entered into on this.....day of2020 by and between **the Ministry of Water and Environment of Plot 21/28 Port Bell Road, Luzira** P.O. Box 20026 Kampala (hereinafter MWE), of the one Part

and

The Ministry of Energy and Mineral Development of Amber House Plot 29/33 Kampala Road, P.O Box 7270 Kampala, (hereinafter MEMD), of the other Part.

PREAMBLE

WHEREAS:

- i. By signing and ratifying the United Nations Framework Convention on Climate Change (UNFCCC), the Kyoto Protocol 2007, and the Paris Agreement 2015, Uganda has committed to the adoption and implementation of policies and measures designed to mitigate climate change and adapt to its impacts;
- ii. Uganda as a Party to UNFCCC, is required to periodically develop and submit national inventories of anthropogenic emissions by sources and removals by sinks of all greenhouse gases (GHGs) not controlled by the 1987 Montreal Protocol;
- iii. The National Greenhouse Gas (GHG) Inventory report shows the country's level of GHG emissions for a given year, and, where reported, the trend of emissions over a certain time period;
- iv. The Uganda National Climate Change Policy 2015 requires MWE, more specifically the Climate Change Department (CCD), to develop an inventory of national aggregate greenhouse gas emissions, using existing and readily available data and resources;
- v. Cabinet, by Cabinet Minute 241 (CT 2009), assigned MWE CCD the role of coordinating the implementation of climate change actions in the country, including climate change reporting;
- vi. Due to the volume and diversity of the information to be included in a National GHG Inventory, the preparation of the Inventory requires the involvement of a wide range of stakeholders;
- vii. MWE CCD has identified the key GHG emitting sectors as Agriculture, Energy, Forestry, Transport, and Waste; and MEMD is therefore one of the key sources of information necessary for the preparation of the National GHG Inventory;

- viii. GHG data is shared between the sector and MWE, this system of data collection, processing and transmission is not well structured to respond adequately to the UNFCCC reporting requirements;
- ix. There is currently no formal arrangement in place requiring the key GHG emitting sectors to periodically submit GHG data to MWE CCD;

NOW THIS MoU WITNESSES AS FOLLOWS:

ARTICLE 1.

OBJECTIVES.

The objectives of this MoU are-

- (a) to streamline the collection, processing and sharing of GHG data between MWE and MEMD, for purposes of reporting under the UNFCCC;
- (b) to support the development of the National GHG Inventory, for purposes of enhancing transparency and reporting under the Paris Agreement of the UNFCCC and to influence policy decisions at the national level;
- (c) to clearly define the roles and responsibilities of MWE CCD and the MEMD as relates to GHG data collection, processing and sharing for UNFCCC reporting;
- (d) to exchange GHG data and information, and share expertise, emission factors and methodologies pertaining to the development of the National GHG Inventory.

ARTICLE 2.

ROLES AND RESPONSIBILITIES.

2.1 Roles and responsibilities of MWE CCD.

MWE CCD shall-

- (i) define key sources and sink categories; set minimum requirements for Quality Assurance (QA) and Quality Control (QC); specify methods to be used to calculate emissions and clarify uncertainties and any issues concerning emissions reporting;
- (ii) assist MEMD GHG data team with the use of activity data, and select and apply appropriate best practice, including the Intergovernmental Panel on Climate Change(IPCC) Good Practice Guidance to improve existing methodologies and emission factors;
- (iii) prepare the National GHG Inventory;

- (iv) make available to MEMD GHG data team, prior to submission to UNFCCC, the National GHG Inventory for review and to resolve any issues that may be identified by MWE CCD and MEMD GHG data team;
- (v) provide continuous capacity building and training of the MEMD GHG data team in order to enhance technical capacity and expertise in data collection, management and sharing;
- (vi) in consultation with the MEMD GHG data team, agree on schedules, annual work plans and timelines for submission of the data to MWE CCD;
- (vii) in consultation with MEMD, address the technical and capacity needs and constraints in the implementation of this MoU identified by the MEMD GHG data team;
- (viii) MWE shall for purposes of this MoU designate an officer as the Focal Point to coordinate with the MEMD GHG Team to implement the MoU
- (ix) make available financial and other resources within the limits of the MWE CCD budget to carry out the roles and responsibilities of MWE CCD agreed to in this MoU.

2.2 Roles and responsibilities of MEMD.

MAAIF shall undertake the following-

- (i) constitute and designate a GHG data team, headed by the MEMD Climate Change Focal Point, to work with MWE CCD to implement this MoU;
- (ii) the MEMD GHG data team shall collect, analyze and submit to MWE CCD, free of charge and in an agreed format, GHG data listed in Annex I to this MoU, and any other related data as may be found necessary or as may be required by MWE CCD for purposes of preparing or updating the National GHGI;
- (iii) the MEMD GHG data team shall collect, archive and manage activity data from various data sources available in the energy sector, with the aid of the MWE 2019 'Technical Guide for National Greenhouse Gas Data Sharing' (provided as Annex II to this MoU), and or any other emissions data collection protocols designed by MEMD in consultation with MWE CCD;
- (iv) manage internal data acquisition and processing from MEMD agencies, and apply GHG data QA/QC measures as required by MWE CCD;
- (v) adhere to the inventory preparation schedule/annual work plans and submission timelines agreed to with MWE CCD;
- (vi) Identify any technical and capacity needs and constraints in the implementation of this MoU and communicate these to MWE CCD for action.
- (vii) make available financial and other resources within the limits of the MEMD budget to carry out the roles and responsibilities of MEMD agreed to in this MoU.

**ARTICLE 3.
CONFIDENTIALITY.**

MWE CCD undertakes to maintain the confidentiality of any data labelled by MEMD as confidential.

**ARTICLE 4.
MEETINGS AND CORRESPONDENCE.**

To accomplish the goals and activities set forth in this MoU, the parties shall, as far as practicable-

- (a) Regularly meet for the purposes of planning, and monitoring and evaluating outcomes from implementation of the MoU;
- (b) Respond to correspondence in a manner and timeframe that promotes efficiency and the timely progress or completion of objectives and tasks consistent with the roles and responsibilities set out in this MoU.

**ARTICLE 5.
MODIFICATION AND AMENDMENTS.**

This MoU may be amended or modified at any time by written mutual consent of both Parties.

**ARTICLE 6.
ENTRY INTO FORCE AND NOTIFICATION**

- 1. This MoU comes into force upon signature. It will remain in force for ten years, and may be renewed upon mutual consent by both Parties, based upon successful past implementation.
- 2. Each Party shall promptly notify the other Party in writing of any anticipated or actual material changes that will affect the execution of this MoU.

Signatures

On behalf of MWE CCD:	On behalf of MEMD
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Date:

ANNEX

Annex I contains the details of the emissions data as per IPCC requirement, and the data available for submission to MWE CCD by MEMD.

GHG DATA AS PER IPCC REQUIREMENT FOR SUBMISSION BY MEMD

Lead Institution: Ministry of Energy and Mineral Development

Data supply status:

IPCC Requirement	Description	State of data	Data providers/ owners	Other relevant Actors
1. Electricity Generation	Mass or Volume fuel consumed to per KWH	Electricity generation and consumption data available and well documented	Electricity Regulatory Authority (ERA)	Private companies, industries with Combined Power \ Heat (CHP) sources
			MEMD - Energy balance and energy abstract documents	
			Uganda Bureau of Standards (UBOS) - Energy Audit Reports	
			UMEME Ltd - Electricity distribution reports	
			Uganda Electricity Transmission Company Limited – annual reports	
2. Manufacturing Industries \Wood and Wood Products (Biomass-charcoal, biogas and briquettes)	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Biomass use data by NFA, and data on charcoal production and use generated through studies. No documented data on firewood fuel use	National Forestry Authority	National Environment Management Authority (NEMA), CSOs, Uganda Manufacturer Association (UMA), Uganda Small Scale Industries Association (USSIA)
			Rural Electrification Agency (REA)	
			Uganda Bureau of Statistics (UBOS)	
			Districts/Ministry of Local Government	

3. Manufacturing industries/construction	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Data not desegregated to capture construction	Ministry of Trade Industry and Cooperatives (MTIC)	Professional associations (engineers), UMA, NEMA, Uganda National Bureau of Standards (UNBS)
4. Manufacturing Industries \ Food Processing, Beverages, Tobacco	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Data not disaggregated to capture sub categories	MTIC and UBOS	UMA, NEMA, UNBS, Uganda Cleaner Production Centre (UCPC)
5. Manufacturing Industries \Textile and Leather	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Data not disaggregated to capture sub categories	MTIC and UBOS	UMA, NEMA, UNBS, UCPC
6. Manufacturing Industries \ Construction\Pulp, Paper, Print	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Pulp and paper making industries absent in Uganda, only paper recycling	N/A	N/A
7. Manufacturing Industries \Iron & Steel	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Data available on electricity used in iron and steel industries. Other fuels used not documented	MTIC and UBOS	UMA, NEMA, UNBS, UCPC
8. Manufacturing Industries \ Chemicals	Consumption (Mass or Volume) and Conversion factor (TJ/UNIT output)	Data not desegregated to capture chemical industry	MTIC and UBOS	UMA, NEMA, UNBS, UCPC
9. Petroleum Refining		Not available (due 2021)	N/A	Petroleum Authority of Uganda (PAOU)
10. Fuel Consumption	Complements consumption data requirements above	Aggregated fuel consumption (petroleum imports, fuels efficiency)	Ministry of Works and Transport (MoWT) Uganda Revenue Authority (URA)	Uganda National Oil Company

Annex II contains the MWE 2019 ‘Technical Guide for National Greenhouse Gas Data Sharing among the Selected Key Emission Sectors of Uganda’, and shall be used by MEMD GHG data team in preparing the data and information required under this MoU. The Technical Guide is provided as an independent document to this MoU.