

MINISTRY OF WATER AND ENVIRONMENT

Standard National Climate Change Indicators and Indicator Reference Sheets

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ACRONYMS

ACCRA	Africa Climate Change Resilience Alliance
CC	Climate Change
CCA	Climate Change Adaptation
CCD	Climate Change Department (formerly Climate Change Unit, CCU)
CDO	Community Development Officer
DDP	District Development Plan
DSIP	Development Strategy and Investment Plan
DSP	District Sector Plan
DTPC	District Technical Planning Committee
FFA	Enabling Environment for Agriculture
FTF	Feed the Future
Gold	Government of Uganda
IIFD	International Institute for Environment and Development
IS	Implementation Strategy
KCCA	Kampala Capital City Authority
	Local Government
	Local Government Development Planning Guidelines
LGDPF	Local Government Performance Assessment System
	Monitoring and Evaluation
	Ministry of Agriculture, Animal Industry and Fisheries
MDA	Ministry On Agriculture, Annual mudsity and Esteries Ministry Departments and Agencies
MDG	Millishy Departments and Agencies Millishing Development Goals
MoES	Ministry of Education and Sports
	Ministry of Einance Planning and Economic Development Ministry of
MCISD	Gender Labour and Social Development
Malso	Ministry of Health
	Ministry of Local Government
MOLG	
MoLHUD	Ministry of Lands, Housing and Urban Development
MoTIC	Ministry of Trade, Industry and Cooperatives
MoTWH	Ministry of Tourism, Wildlife and Heritage
MoWT	Ministry of Works and Transport
MWE	Ministry of Water and Environment
NCCP	National Climate Change Policy
NDP	National Development Plan
NEMA	National Environment Management Authority
NFA	National Forestry Authority
NGO	Non-Government Organization
NPA	National Planning Authority
NWSC	National Water and Sewerage Corporation
PBS	Program Based Budgeting System
OOB	Output Oriented Budgeting
OPM	Office of the Prime Minister
P&E	Provide and Equip Ltd
TPC	Technical Planning Committee
UNHS	Uganda National Household Survey
UNMA	Uganda National Meteorological Authority
USAID	United States Agency for International Development
UWA	Uganda Wildlife Authority
WMD	Wetlands Management Department

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SECTION 1: INTRODUCTION

This section presents the background and rationale for the indicator reference sheets.

1.1 Background

Following the development of the Government of Uganda (GoU) National Climate Change Policy (NCCP) and its Implementation Strategy (IS) which were approved by the cabinet on April 1, 2015, the Ministry of Water and Environment (MWE) with support from development partners developed the national Standard Climate Change (CC) indicators in September 2015.

The process for developing the CC standard indicators was a participatory and widely consultative process that entailed:

- a. The brainstorming and consultative meetings among key stakeholders that included:
- The communities
- The local government (LG) Technical Planning Committees including the Chief Administrative Officers (CAOs)
- National level sector representatives from the MWE/Climate Change Department (CCD), Ministry of Local Government (MoLG), Ministry of Finance, planning and Economic Development (MoFPED), the Office of the Prime Minister (OPM), Trade, Industry and Cooperatives, Ministry of Gender, Labour and Social Development (MGLSD), National Planning Authority (NPA), Kampala City Council Authority (KCCA) and other urban authorities, LGs, Agriculture/Production, Energy, Tourism and Wildlife Sector, Roads and Infrastructure
- Implementing partners and development partners
- Civil Society Organisations

b. Desk review and analysis of the selected documents to track progress regarding the drafting of LG CC indicators, collate, map out common indicators and identify gaps. See Annex 1 for the list of key documents reviewed.

c. Presentation of the draft report on CC indicators in 4 national level meetings including;

- The meeting for key mandated institutions for climate change policy implementation, other policy makers and CSOs
- Retreat to review the draft indicators for key mandated institutions for CC policy implementation and other policy makers
- The national validation meeting which will include MDAs, CSOs, and LGs
- Presentation at the national meeting organised by UBOS, OPM, MFPED and NPA to review indicators reported by sectors to NDP, OPM and PBS

The Standard National CC indicators were prioritized for the Program Based Budgeting System (PBS); a tool developed by MFPED, to budget across ministries at the national level and across sectors at the LG level and is the repository of all indicators tracked nationally by the public sector. MoFPED will be shifting from Output Oriented Budgeting (OOB) to Programme Oriented Budgeting, hence changing from focusing at output to outcome level. Outcome level indicators were therefore developed for CC in anticipation of this change.

The Standard National CC indicators were prioritized for the MoLG Local Government Performance Assessment System, which the ministry uses to ensure that all the funds that come to the LGs are utilized as budgeted, the inclusion of CC indicators was essential for effective tracking of implementation of CC interventions.

1.2 Rationale for the Indicator Reference Sheets

Indicator Reference Sheets or Performance Indicator Reference Sheets (PIRS) provide implementers, supervisors and funders a comprehensive description of each indicator. The PIRS enable comparable tracking, measurement and interpretation of indicators and hence are part of the 'reliability' data quality assurance measures.

In addition, PIRS serve as reference points for reporting, measuring performance and for performing data quality assessments; particularly focusing on the following data quality dimensions; validity, precision, reliability and timeliness:

- Validity does data clearly and adequately represents the intended result as per indicator definition?
- Precision have the right computations been applied? Is there an acceptable margin of error?
- Reliability is data for the same indicator collected and analysed through a similar and consistent methodology? Data should reflect stable and consistent data collection processes and analysis methods over time
- Timeliness is data collected at a commonly agreed frequency? (monthly, Quarterly, Annually, Every 5 years?) Is it available on time to influence management decision-making?

SECTION 2:

THE STANDARD NATIONAL CLIMATE CHANGE INDICATORS

This section presents the standard national CC indicators as prioritized for the PBS and LGPAS.

2.1 Standard National Climate Change Indicators for the Program Based Budgeting System (PBS)

SN	Outcome Indicators per Sector	Currently in PBS?
Α	Natural Resources including Water	
	Outcome indicators	
	Wetland cover (% of total area)	Stated differently in PBS, adopted from NDP II
	Forest Cover (% Land Area)	Stated differently in PBS, adopted from NDP II
	Percentage of domestic water sources that comply with national standards	No
	Output indicators	
	Area in ha of wetlands demarcated and restored	Yes
	Number of hectares of forests restored and conserved	No
	Number of households with functional water harvesting facilities	No
В	Agriculture/Production	
	Outcome indicators	
	Percentage of household income generated from the sale of agricultural produce	No
	Percentage of households that are food secure	No
	Output Indicators	
	Number of agricultural income generating enterprises undertaken by house- holds	No
	Number of farmers using Climate Smart Agriculture (CSA) technologies	No
С	Trade, Industry and Cooperatives	
	Outcome Indicators	
	Percentage change in agriculture trade volumes	No
	Pollution Index	No, in NDP II
	Output Indicators	
	Number of cooperatives that have mainstreamed CC mitigation and adapta- tion in their activities	No
	Percentage change in use of renewable energy source equipment at all levels	No
	Number of industries with efficient, environmentally friendly production and waste management practices	No
D	Meteorology	
	Outcome Indicator	
	Percentage of women and men making informed decisions from weather/ climate information	No
	Output Indicators	
	Number of new weather stations installed/revamped and functional	No
Е	Energy	
	Outcome Indicators	

SN	Outcome Indicators per Sector	Currently in PBS?
	Percentage adoption and use of Renewable Energy Technologies (RETs) (im-	No
	proved stoves, solar PVs, biogas, briquettes)	
	Output Indicators	
	Number of Mega Watts (MGs) generated from renewable energy sources)	No
	Number of households using renewable energy technologies	No
F	Tourism and Wildlife Sector	
	Outcome Indicators	
	Percentage change in wildlife conservation coverage	No
	Output Indicators	
	Proportion of area covered by invasive species in wildlife protected areas	No
	Percentage change in wild fire incidences reported in protected areas	No
G	Health	
	Outcome Indicator	
	Incidences of hygiene related diseases occurrence reported at health facili- ties annually	No
	Output Indicator	
	Number of community members sensitized on hygiene and water-borne diseases	No
н	Transport and Infrastructure	
	Outcome Indicators	
	Percentage of district roads improved to all-weather condition	No
	Percentage of cities and municipalities with climate change resilient physical development plans	No
	Output Indicators	
	Length in km of district roads with demarcated road reserve	No
1	Gender, Labour and Social Development	
	Outcome Indicators	
	Percentage of women and men with better livelihoods despite climate shocks	No
	Proportion of men and women farming population practicing climate-smart agriculture	No
	Output Indicators	
	Proportion of Sector Development Plans integrating CC and gender	No
	Number of men and women farmers accessing timely weather information	No
J	MoLG/NPA	
	Outcome Indicators	
	Percentage of LGs implementing CC interventions stipulated in their Dis- trict Development Plans (DDPs)	No
	Percentage of actual funds allocated towards the CCA against budgeted	No
	Output Indicators	
	Percentage of higher level LGs that have integrated climate change inter- ventions in their DDPs	No
	Number of LGs spending at least 5% of their non-wage budget for CC activities	No
К	M₀FPED	
	Outcome Indicators	
1.	Percentage funding allocation for climate change	No

SN	Outcome Indicators per Sector	Currently in PBS?
L	Education	
	Outcome Indicators	
	Percentage of education institutions with functional water facilities during dry periods	No
	Percentage of education institutions implementing CC mitigation and adaptation activities	No
	Output Indicators	
	Number of functional rain water harvesting facilities constructed in educa- tion institutions	No
4.	Number of trees planted and maintained in school compounds	No
м	Institutions (LGs, Health Facilities (HFs) and Schools)	
	Outcome Indicators	
	Percentage of government institutions with functional water facilities during drought	No
	Percentage of institutions implementing CC mitigation and adaptation activities	No
	Output Indicators	
	Number of trees planted at the institutional premises	No
Ν	Cities and Municipalities	
	Outcome Indicators	
	Energy	
	Percentage use of renewable energy	No
	Transport	
	Percentage reduction of Green House Gas (GHG) emissions	No
	Waste Management	
	Percentage of waste recycled	No
	Physical Planning	
	Percentage of infrastructure with appropriate drainage system	No
	Output Indicators	
	Waste Management	
	Tonnage of waste collected and disposed at waste management facility	No
	Physical Planning	
	Existence of climate change resilient physical development plan among cities and municipalities	
7.	Area covered by designated green spaces	No

Standard National Climate Change Indicators for the LG Performance Assessment System (LGPAS).

Performance measure	Indicators of performance measure	MoV/Information source, Assessment and scoring Procedure/Criteria
Climate Change Mainstreaming	 Evidence of assignment of a Focal Point Person (FPP) in charge of climate Change 	 From the office of the CAO/TC, obtain and review the assignment and acceptance let- ters of the FPP
 Maximum possible score is 10 Must score at least 7 to be eligible for a reward Must score at least 5 to remain static 	2. Evidence that the LGs in- tegrated Climate change interventions in their De- velopment plans consis- tent with National Stan- dard Indicators.	 From the planning Unit, obtain and review the Five-Year DP to ascertain if Climate Change concerns were mainstreamed in var- ious sectors consistent with NCCP. From the HoE obtain and review the an-
 Any score below 5 deserve a penalty. 	3. Evidence that the LG annual budgets reflect budgetary allocations for	nual budget of the previous FY to establish whether it reflects budgetary allocations to address climate change issues that were raised in LG plans
	climate change concerns that were raised in the LG Development Plans	4. From HRD/FPP, obtain and review differ- ent documents like Activity/training reports, circulars, proposals for sensitization and ca- pacity building on climate change mitigation and adaptation
	4. Evidence that the LG mentored and sensitized other staff and other community leaders on cli- mate change adaptation and mitigation	5. From quarterly performance reports sub- mitted to MFPED to establish whether is- sues raised in the LG plans were implement- ed.
	5. Evidence that the LG implemented Climate Change interventions raised in the LG develop- ment plan.	6. From HRD, Obtain and review the capacity building needs assessment report to estab- lish evidence that climate change specific issues were identified and analyzed during the capacity building needs assessment and gaps identified were included in the Capacity Building plans
	6. Evidence that Climate Change specific issues were identified and ana- lyzed during the capacity building needs assessment and identified gaps ad- dressed in their Capacity Building Plans	If there is evidence of indicators 1 and 5 score 1 for each and the rest score 2 each.

SECTION 3: INDICATOR REFERENCE SHEETS FOR THE NATIONAL CLIMATE CHANGE INDICATORS

The indicator reference sheets are presented per sector, that is, natural resources, agriculture/production; trade, industry and cooperatives; meteorology; energy; tourism and wildlife sector; health; roads and infrastructure; gender; labour and social development; MoLG/NPA; MFPED; education; institutions (LGs, health facilities and schools); KCCA and municipalities.

Natural Resource

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Natural Resources

INDICATOR TITLE: A1 Wetland cover (% of total area)

Definition: This indicator refers to the total area in square kilometers covered by a wetland. Wetlands are shallow seasonally or permanently water logged or flooded areas, which normally support hydrophytic vegetation (water tolerant). Hydrophytic plants are those that are adapted to growing in water or are found in predominantly wet places.

Rationale: Increase in wetland coverage and reduction in wetland degradation is a climate mitigation strategy. Wetlands can act as a reservoir to store carbon dioxide, hence mitigating climate change impacts. On the other hand, wetland systems are vulnerable to changes in quantity and quality of their water supply, and it is expected that climate change will have a pronounced effect on wetlands through alterations in hydrological regimes with great global variability.

Numerator: Land under wetland cover

Denominator: Total land area

Unit of measure: Percentage	Disaggregated By: District		
Level: Outcome (Impact, outcome, output)	Data Source: NEMA survey reports, Wetlands Management		
	Department and District Local Governments		
Data Collection Methodology: Survey			
Frequency of Collection: Every five years			
Responsibility for Data Collection: Wetlands Management Department			
Measurement Notes (optional):			
Baseline: 11% (2012/2013) NDP II Target: 12% (2019/2020) NDP II			

SECTOR: Natural Resources

INDICATOR TITLE: A2 Forest Cover (% Land Area)

Definition: "Forest cover" refers to the percentage of total land area covered by forest Forest as defined in the National Forestry and Tree Planting Act, 8/2003. (Part I: Preliminary) - means an area of land containing a vegetation association that is predominantly composed of trees of any size, and includes - (a) a forest classified under this Act; (b) a natural forest, woodland or plantation; (c) the forest produce in a forest; and (d) the forest ecosystem; including "forest ecosystem" which means any natural or semi-natural formation of vegetation whose dominant element is trees, with closed or partially closed canopy, together with the biotic and abiotic environment; or as modified for the purposes of compliance with international agreements especially the United National Framework Convention on Climate Change (UNFCCC) and the Convention on Biological Diversity

Rationale: Decline in Uganda's forest cover puts pressure on natural resource use. Deforestation and forests degradation has led to biodiversity loss, changing ecosystem dynamics, shift in habitats, and growing seasons. It has also contributed to emission of green house gases (GHGs) that cause global warming. However, there is potential for conservation, sustainable management and enhancement of forest cover (through restoration, afforestation/reforestation, agro-forestry).

Numerator: Area covered by the forest

Denominator: Total land area

Unit of measure: Hectares	Disaggregated By: Type of forest cover, ownership (private and		
	protected areas), district		
Level: Outcome (Impact, outcome,	Data Source: NFA, FSSD, Districts, UBOS, NEMA survey reports,		
output)	Universities and Research Institutions.		
Data Collection Methodology: Forest Cover Mapping, Forest Inventories and associated surveys			
Frequency of Collection: Five years			
Responsibility for Data Collection: National Forestry Authority and Local Governments			
Measurement Notes (optional): N/A			
Baseline: 14% (2012/2013) NDP II	Target: 18% (2019/2020) NDP II		

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Natural Resources

INDICATOR TITLE: A3 Percentage of domestic water sources that comply with national standards

Definition: The domestic water sources will be subjected to the Uganda national water standard to assess the degree of conformity to the standard. This indicator tracks percentage of domestic water sources that comply with national standards.

Rationale: Although Uganda has several water sources, most of them do not comply with the national standards so be considered as safe water for domestic use.

Numerator: Domestic water sources that comply with national standards

Denominator: Domestic water sources

Unit of measure: Percentage	Disaggregated By: Type of water source
Level: outcome (Impact, outcome, output)	Data Source: MWE water Survey report

Data Collection Methodology: Survey

Frequency of Collection: Every 3 years

Responsibility for Data Collection: MWE/NWSC

Measurement Notes (optional):

Baseline: TBD

SECTOR: Natural Resources

INDICATOR TITLE: A4 Area in ha of wetlands demarcated and restored

Definition: Wetland demarcation involves determining the horizontal limits of the wetland. Wetland survey is a perquisite prior to wetland demarcation. Wetland restoration is a process that helps to transform an area that has been impacted by human or natural activity to an area that can sustain native habitats. Restoring an area is a long process that requires an understanding of an area. Learning about the history of an area and its succession through time, will help determine how to restore an area. Success can be determined if the ecosystem can recapture its natural dynamics.

Rationale: This indicator aims at tracking the number of wetlands whose horizontal limits have been marked and re-established so as to be able to sustain native habitats and hence play their appropriate role in the eco-system. Numerator: Hectares of wetlands demarcated and restored

Denominator: Total Area of wetlands

Unit of measure: Hectares	Disaggregated By: District
Level: Output (Impact, outcome, output)	Data Source: NEMA survey reports, We suggest that the other data sources be Wetlands management department and District Local Governments
Data Collection Methodology: Survey	

Frequency of Collection: Annually

Responsibility for Data Collection: Wetlands Management Department and Local Governments

Measurement Notes (optional): The determination of the baseline and setting of the target has to be informed by the survey conducted

Baseline: TBD

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PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Natural Resource

INDICATOR TITLE: A5 Area (in hectares) of central and local forest reserves restored and conserved

Definition: Forest restoration is a process that helps to transform an area that has been impacted by human or natural activity to an area that can sustain native habitats. Restoring an area is a long process that requires an understanding of an area. Learning about the history of an area and its succession through time, will help determine how to restore an area. Success can be determined if the ecosystem can recapture its natural dynamics. Forest conservation is the practice of planning and maintaining forested areas for the benefit and sustainability of future generations.

Rationale: This indicator aims at tracking the number of forests that have been re-established and protected so as to be able to sustain native habitats and hence play their appropriate role in the eco-system.

Numerator: Area (Hectares) of central and local forest reserves restored and conserved

Denominator: Total land area covered by forest

Unit of measure: Hectares	Disaggregated By: Type of forest cover, ownership (private and protected areas), district
Level: output(Impact, outcome, output)	Data Source: NFA, FSSD, Districts, UBOS, NEMA, Universities and Research Institutions.

Data Collection Methodology: Survey

Frequency of Collection: Five years

Responsibility for Data Collection: National Forestry Authority and Local Governments

Measurement Notes (optional):

Baseline: TBD

SECTOR: Natural Resource		
INDICATOR TITLE: A6 Number of households with water harvesting facilities		
Definition: The water harvesting facilities may include catchments such as roof top gutters and rain water tanks.		
This indicator measures the number of households who have water-harvesting facilities.		
Rationale: Water harvesting is a water management technique thus increase in number of households with water		
harvesting facilities indicates a strategy of clir	nate change adaptation. Once rainwater is harvested, it ensure no	
water wastage during the rainy season and he	ence water reservoir during the scarcity of rains for domestic and	
agricultural purposes.		
Numerator: Number of households with water harvesting facilities		
Denominator: Total number of households		
Unit of measure: Households	Disaggregated By: Urban and rural, type of roof	
Level: output (Impact, outcome, output)	Data Source: Uganda National Household Survey (UNHS)	
	Report	
Data Collection Methodology: Household survey		
Frequency of Collection: Every 3 years		
Responsibility for Data Collection: UBOS		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Agriculture/Production

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Agriculture/Production

INDICATOR TITLE: B1 Percentage of household income generated from the sale of agricultural produce*

Definition: This indicator measures the proportion of earnings from households that comes from the sale of agricultural produce.

Rationale: Agriculture is the main source of livelihood for Ugandans, but it is mostly done at a subsistence level, implying limited income for householdsand hence the high likelihood of exerting less pressure on the nature resources in search of earnings. Increased income from agriculture means improved profitability of the sector and less pressure on natural resources.

Numerator: Household income generated from the sale of agricultural produce

Denominator: Total household income

Unit of measure: PercentageDisaggregated By: Sex of the household headLevel: outcome (Impact, outcome, output)Data Source: UNHS ReportData Collection Methodology: UNHS surveyFrequency of Collection: Every 3 years

Responsibility for Data Collection: UBOS

Measurement Notes (optional):

Baseline: TBD

SECTOR: Agriculture/Production

INDICATOR TITLE: B2 Percentage of households that are food secure

Definition: This indicator measures the percentage of households experiencing moderate or severe hunger, as indicated by a score of 2 or more on the household hunger scale (HHs). To collect data for this indicator, respondents are asked about the frequency with which three events were experienced by household members in the last four weeks: 1. No food at all in the house; 2. Went to bed hungry, 3. Went all day and night without eating. For each question, four responses are possible (never, rarely, sometimes or often), which are collapsed into the follow three responses: never (value=0), rarely or sometimes (value=1), often (value=2). Values for the three questions are summed for each household, producing HHs score ranging from 0 to 6. (Adopted from Feed the Future (ftf) indicator Handbook)

Rationale: Households that are food secure are a reflection of improved household resilience to effects of climate change.

Numerator: The numerator for this indicator is the total number of households in the sample with a score of 2 or more on the HHs.

Disaggregated By: Sex of the household head

Denominator: The denominator is the total number of households in the sample with HHs data.

Unit of measure: Percentage

Level: outcome (Impact, outcome, output) Data Source: UNHS Report

Data Collection Methodology: UNHS survey

Frequency of Collection: Every 3 years

Responsibility for Data Collection: UBOS

Measurement Notes (optional): This indicator should always be measured at the same time each year, ideally at the most vulnerable part of the year (e.g. right before harvest, during the dry season, etc.) **Baseline: TBD**

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PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Agriculture/Production

INDICATOR TITLE: B3 Number of agricultural income generating enterprises undertaken by households.

Definition: This indicator measures the agriculture related income generating enterprises/activities undertaken by households.

Rationale: The agricultural income generating enterprises boost agricultural production and household savings. Once households have diversified income, there is less pressure on natural resources.

Numerator: The total agricultural income generating activities done at house hold level

Denominator: The total income generating activities done at house hold level

Unit of measure: Number	Disaggregated By: Type of income generating enterprises
Level: outcome (Impact, outcome, output)	Data Source: UNHS report

Data Collection Methodology: Population based survey

Frequency of Collection: Every three years

Responsibility for Data Collection: UBOS/MAAIF

Measurement Notes (optional):

Baseline: TBD

PERFORMANC	E INDICATOR REFERENCE SHEET	
Sector: Agriculture/Production		
INDICATOR TITLE: B4 Number of farmers	s practicing Climate Smart Agriculture (CSA) technologies.	
Definition: Climate-smart agriculture (CSA) is an integrative approach to address these interlinked challenges of food security and climate change, that aims at:		
 Sustainably increasing agricultural productivity, to support equitable increases in farm incomes, food security and development; 		
 Adapting and building resilience of agricultural and food security systems to climate change at multiple levels; and 		
Reducing greenhouse gas emissions	from agriculture (including crops, livestock and fisheries).	
Some of the CSA technologies used by crop trees (including fruit types), mulching and w	husbandry farmers include establishment and utilization of shade ater harvesting.	
Rationale: Climate smart technologies are C	C adaptation techniques aimed at sustainably increasing agricultural	
productivity, adapting and building resilience and reducing greenhouse gas emissions.		
Numerator: Number of farmers practicing CSA technologies.		
Denominator: Total number of farmers		
Unit of measure: Number	Disaggregated By: Type of technology	
Level: output(Impact, outcome, output)	Data Source: District reports	
Data Collection Methodology: Routine reporting		
Frequency of Collection: Annually		
Responsibility for Data Collection: DPO/DAO		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	
Trade, Industry and Cooperatives		
PERFORMANC	E INDICATOR REFERENCE SHEET	

Sector: Trade, Industry and Cooperatives INDICATOR TITLE: C1 Percentage change in agricultural export volumes Definition: This indicator tracks the direction and magnitude of annual change in the value of agricultural export commodity volumes. It includes both formal and informal trade. Formal trade is defined as trade in which the trader submitted documentation at the border. Rationale: Increased export volume is one of the end results of efficient markets, foreign exchange earner and contributor to GDP. Numerator: Percentage change in export volumes per year (Denominator: Total trade volumes Disaggregated By: Commodity, Type of trade: (local versus Unit of measure: Percentage export) Data Source: UBOS Trade report Level: outcome (Impact, outcome, output) Data Collection Methodology Document review Frequency of Collection: Annually Responsibility for Data Collection: UBOS Measurement Notes (optional): Target: TBD Baseline: TBD

SECTOR: Trade, Industry and Cooperatives

INDICATOR TITLE: C2 Pollution Index

Definition: The Pollution Index is a simple and generalized way to describe the air quality. It is calculated from several sets of air pollution data. The pollution index is at times referred to as Air Quality Health Index, Air Pollution Index and Pollutant Standards Index. The Pollution Index considers air pollutants such as - sulphur dioxide (SO₂), particulate matter (PM_{10}), fine particulate matter ($PM_{2.5}$), nitrogen dioxide (NO_2), carbon monoxide (CO) and ozone (O_2).

Rationale: Air pollution contributes to global warming through creating a thick layer that does not easily allow sunrays to be transmitted through. It also causes health problems such as aggravated heart or respiratory illnesses.

Numerator: Total number of enterprises that pollute the air

Denominator: Percentage emission from industries

Unit of measure: UNFCCC recommended Disaggregated By: N/A

unit Level: outcome(Impact, outcome, output) Data Source: Survey report

Data Collection Methodology: Computation of the index

Frequency of Collection: Every 1 year

Responsibility for Data Collection: NEMA

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

Sector: Trade, Industry and Cooperatives

INDICATOR TITLE: C3 Number of cooperatives that have mainstreamed CC mitigation and adaptation in their activities

Definition: Mainstreaming is the informed integration of themes or concerns or relevant value (s) into the decisions of institutions (cooperatives) that drives the policies, plans, investments and actions. Mainstreaming is a long-term, iterative process aimed at transforming ideas, policies, resource allocation and practices to promote desired developmental outcomes with regard to gender, environment, climate change, governance, and human rights among others. Cooperatives are farms or businesses jointly owned or run by its members to achieve a common goal.

Rationale: Cooperatives constitute a large membership of farmers and hence have potential to influence the large membership to mainstream CC to realise large-scale positive influence.

Numerator: Number of cooperatives that have mainstreamed CC mitigation and adaptation

Denominator: Total number of cooperatives

Unit of measure: NumberDisaggregated By: type of cooperativeLevel: output (Impact, outcome, output)Data Source: Survey report

Data Collection Methodology: Survey

Frequency of Collection: Annually

Responsibility for Data Collection: MTIC

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE	PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Trade, Industry and Cooperatives			
INDICATOR TITLE: C4 Percentage change in use of renewable energy source equipment by industries			
Definition: This indicator measures the use of renewable energy source equipment, such as equipment for bio-			
fuels, wind and solar energy among industries	•		
Rationale: The use of renewable energy is one of the CC mitigation measures.			
Numerator: Percentage of industries using renewable energy source equipment in the reporting year.			
Denominator: Total number of industries			
Unit of measure: Percentage	Disaggregated By: Type of industry		
Level: outcome(Impact, outcome, output)	Data Source: Survey report		
Data Collection Methodology: Survey			
Frequency of Collection: Every 3 years			
Responsibility for Data Collection: Ministry of Trade and Industry			
Measurement Notes (optional):			
Baseline: TBD	Target: TBD		

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Trade, Industry and Cooperatives		
INDICATOR TITLE: C5 Number of industries with efficient, environmentally friendly waste management		
practices.		
Definition: Efficient and environmentally frie	endly waste management practices entail all those activities and	
actions required to manage waste from its inc	eption to its final disposal. This includes amongst other things,	
collection, transport, treatment and disposal (of waste together with monitoring and regulation.	
Rationale: Poor or lack of waste management impacts negatives on the environment and in the long term		
causes negative effects on CC.		
Numerator: Number of industries with efficient, environmentally friendly waste management practices		
Denominator: Total Number of industries		
Unit of measure: Number	Disaggregated By: Type of industry	
Level: output (Impact, outcome, output)	Data Source: Survey report	
Data Collection Methodology: Survey		
Frequency of Collection: Every 2 years		
Responsibility for Data Collection: Ministry of Trade and Industry		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Meteorology

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Meteorological Information

INDICATOR TITLE: D1 Percentage of women and men making informed decisions from climate information

Definition: This indicator tracks decision-making among individual men and women. Climate data may include monitored weather, seasonal forecast or climate projections (e.g. anticipated temperature, precipitation and sea level rise, changing frost-free dates, changing soil moisture and/or temperature, risk projections for extreme weather events, speed of soil erosion and water availability under future scenarios).

Rationale: The use of Climate information positions farmers to respond appropriately to anticipated climate variability and change and hence increases productivity of agriculture.

Numerator: Number of men and women making informed decisions from climate information

Denominator: Total farming population

Unit of measure: Percentage	Disaggregated By:
	Gender: (Men and Women)
Level: outcome (Impact, outcome, output)	Data Source: Survey report
Data Collection Methodology survey	
Frequency of Collection: Annually reported	
Responsibility for Data Collection: UNMA	
Measurement Notes (optional): The baseline and targets to be provided by the design	
Baseline: survey design	Target: survey design

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Meteorological Information

INDICATOR TITLE: D2 Number of new weather stations installed/opened

Definition: A weather station is a facility with instruments and equipment for measuring atmospheric conditions to provide information for weather forecasts and to study the weather and climate. A weather station should be maintained and remitting data as required

Rationale: The weather stations provide localized weather forecasts so as to guide the communities regarding what weather to expect as well as what agronomic activities to do.

Numerator: Number of new weather stations installed/ revamped and functional

Denominator: Number of weather stations

Unit of measure: Number Disaggregated By: District

Level: output (Impact, outcome, output) Data Source: UNMA annual reports

Data Collection Methodology: Routine remittance of information

Frequency of Collection: Monthly reported

Responsibility for Data Collection: UNMA

Baseline: TBD

Measurement Notes (optional): Only count the number of functional Weather Stations

Energy

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Energy

INDICATOR TITLE: E1 Percentage of renewable energy contribution to Uganda's energy mix

Definition: This indicator measures the proportion of Uganda's energy generated from renewable energy technologies like bio-fuels, wind, solar, improved cook stoves and LPG at household and institutional levels.

Rationale: There is need to invest in the necessary infrastructure to facilitate the exploitation of the abundant renewable energy sources including hydropower, geothermal, and nuclear, so as to increase power generation capacity.

Data Source: UNHS

Disaggregated By: Type of Renewable energy

Numerator: Number of Mega Watts (MWs) generated from renewable energy

Denominator: Total energy produced from all sources

Unit of measure: Percentage

Level: outcome (Impact, outcome, output)

Data Collection Methodology: survey

Frequency of Collection: Every 3 year

Responsibility for Data Collection: UBOS/Ministry of Energy and Mineral Development

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Energy

INDICATOR TITLE: E2 Percentage adoption and use of renewable energy technologies

Definition: This indicator measures the rate of adoption and use of renewable energy technologies like biofuels, wind, solar, improved cook stoves and Liquefied petroleum gas (LPG) at household and institutional levels.

Rationale: This indicator is useful to track the level of adoption and use of alternative sources of energy as well as renewable energy technologies.

Numerator: Number of households and institutions using renewable energy technologies

Denominator: Total number of households and institutions

Unit of measure: Percentage	Disaggregated By: households and institutions	
	Type of (RET)	
Level: outcome (Impact, outcome, output)	Data Source: UNHS and institutional survey reports	
Data Collection Methodology: UNHS		
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Energy and Mineral Development /UBOS		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

SECTOR: Energy

INDICATOR TITLE: E3 Number of Mega Watts (MWs) generated from renewable energy sources

Definition: This indicator measures the quantity of power generated from renewable energy technologies like bio-fuels, wind, solar, improved cook stoves and LPG at household and institutional levels.

Rationale: There is need to invest in the necessary infrastructure to facilitate the exploitation of the abundant renewable energy sources including hydropower, geothermal, and nuclear, so as to increase environmental friendly power generation capacity.

Numerator: Number of MGs generated from renewable energy

Denominator: Total energy produced

Unit of measure: Mega Watts

Disaggregated By: Energy source

Level: output (Impact, outcome, output) Data Source: Ministry of Energy reports

Data Collection Methodology: Routine monitoring data

Frequency of Collection: Annually

Responsibility for Data Collection: Ministry of Energy

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Energy

INDICATOR TITLE: E4 Number of households using renewable energy technologies improved stoves, solar PVs, biogas, briquettes)

Definition: This indicator tracks the use of RETs at household level. RETs may include improved stoves, solar PVs, biogas and briquettes.

Rationale: The adoption of RETS at household level leads to less environmental destruction and less emission of GHG, which have a negative impact on the climate.

Disaggregated By: Type of RET

Numerator: Number of households using RETS

Denominator: Total number of households in Uganda

Unit of measure: Mega Watts

Level: output (Impact, outcome, output) Data Source: UNHS report

Data Collection Methodology: Survey

Frequency of Collection: Every 3 years

Responsibility for Data Collection: Ministry of Energy/UBOS

Measurement Notes (optional):

Baseline: TBD

Tourism and Wildlife Sector

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Tourism and Wildlife Sector

INDICATOR TITLE: F1 Percentage change in restoration of wildlife conservation areas

Definition: This indicator measures the percentage area f wildlife protected or conservation areas that have been restored from previous degradation or encroachment in order to perform ecological, economic and/or cultural functions.

Rationale: Continued encroachment and degradation of wildlife conservation areas and habitats impacts negatively on ecosystem health thereby contributing to climate change which leads to wildlife poor habitats, variations in wildlife distribution, species composition, and/or extinction and potential conflicts.

Numerator: Percentage area of wildlife protected areas restored

Denominator: Total number wildlife of protected areas restored/rehabilitated

Unit of measure: Percentage Disaggregated By: Level of encroachment and area restored

Level: outcome (Impact, outcome, output) Data Source: survey report

Data Collection Methodology: survey

Frequency of Collection: Every 5 years

Responsibility for Data Collection: UWA and NFA

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Tourism and Wildlife Sector

INDICATOR TITLE: F2 Proportion of invasive species in wildlife protected areas

Definition: Invasive alien species are plants, animals, or other organisms that are introduced to a given area outside their original range and cause harm in their new home.

Rationale: Since invasive species have no natural enemies to limit their reproduction, they usually spread rampantly. Invasive alien species are recognized as one of the leading threats to biodiversity and impose enormous costs to agriculture, forestry and fisheries, as well as to human health ultimately contributing to climate change

Numerator: Percentage area covered by invasive species in wildlife protected areas

Denominator: Total protected/conserved area

Unit of measure: Proportion	Disaggregated By: type and number of invasive species
Level: Outcome (Impact, outcome, output)	Data Source: survey report

Data Collection Methodology: survey

Frequency of Collection: Every 5 years

Responsibility for Data Collection: UWA and NFA

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Tourism and Wildlife Sector		
INDICATOR TITLE: F3 Percentage change in wild fire incidences reported in protected areas		
Definition: This indicator measures the occurrence of wild fire within protected areas		
Rationale: Wild fires destroy natural habitats in protected and conserved areas which leads to environmental		
degradation and climate change		
Numerator: Wild fire incidences reported in protected areas		
Denominator: Number of areas prone to wild fires		
Unit of measure: Number	Disaggregated By: none	
Level: Output (Impact, outcome, output)	Data Source: Ministry of Tourism Annual reports	
Data Collection Methodology: Routine monitoring		
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Tourism		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Health

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Health

INDICATOR TITLE: G1 Incidences of hygiene/water-borne related disease occurrence reported at health centers

Definition: Waterborne diseases are caused by pathogenic microorganisms that most commonly are transmitted in contaminated fresh water. Infection commonly results during bathing, washing, drinking, in the preparation of food, or the consumption of food thus infected. Examples of hygiene/water-borne related diseases include: diarrhea, cholera, hepatitis A, typhoid fever, bilharzias, dysentery and the like. Ok

Rationale: Water-borne diseases cause about 1.8 million human deaths annually. The World Health Organization estimates that 88% of that burden is attributable to unsafe water supply, sanitation and hygiene. Water-born diseases are highly associated with environmental degradation and lack of proper and clean water management practices. Include source and date of report

Numerator: hygiene/water-borne related disease occurrence reported at health centers (number of new water born related disease cases reported

Denominator: Total population at risk per district

Unit of measure: Percentage	Disaggregated By: type of disease, age
Level: outcome (Impact, outcome, outpu	t) Data Source: Health Management Information System (HMIS)
	reports
Data Collection Methodology: Routine reporting	
Frequency of Collection: quarter, weekly, annually	
Responsibility for Data Collection: Ministry of Health	
Measurement Notes (optional):	
Baseline: TBD	Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Health		
INDICATOR TITLE: G2 Number of community members sensitized on hygiene and water-borne diseases		
Definition: This indicator measures the reach of information on hygiene and water-borne diseases.		
Rationale: People with correct information about the importance of maintaining good hygiene and drinking		
clean water, as well as the dangers of not doing that are more likely to adhere to the recommended practices.		
Environmental degradation contributes to poor hygiene and increased water-borne diseases.		
Numerator: Number of community members sensitized on hygiene and water-borne diseases		
Denominator: Total number of community members diseases		
Unit of measure: Number	Disaggregated By: sex	
Level: output (Impact, outcome, output)	Data Source: HMIS reports, UNHS by UBOS	
Data Collection Methodology: Routing monitoring and report		
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Health/MoLG		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Roads and Infrastructure

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Roads and Infrastructure

INDICATOR TITLE: H1 Percentage of community access roads (CAR) improved to all-weather condition

Definition: An all-weather road is a thoroughfare, route, or way on land between two places that has been paved or otherwise improved to allow travel by foot or some form of conveyance, including a horse, cart, bicycle, or motor vehicle.

Rationale: The linkage of rural communities to markets is considered a crucial means of increasing agricultural and other rural-based production as well as the access of rural communities to food at reasonable prices as well as greater off-farm employment opportunities and access to health and nutrition services. Community access roads open up transport from rural spaces where rural-based production activities such as agriculture are taking place, and connects, either directly or indirectly, with population centers and market activity, and social service centres, that it health facilities, education institution and the like.

CAR "improvement" indicates that improves ease of commercial transport along that road and has made the road accessible even in bad weather conditions such as heavy rainfall.

Numerator: Number of CARs improved to all-weather condition

Denominator: Total number of community access roads

Unit of measure: Percentage	Disaggregated By: type (tarmac versus marum)
Level: outcome(Impact, outcome, output)	Data Source: MoWT Annual Performance and LG reports
Data Collection Methodology:	
Frequency of Collection: Annually	
Responsibility for Data Collection: MoWT and Local Governments	
Measurement Notes (optional):	
Baseline: TBD	Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET	
SECTOR: Roads and Infrastructure	
INDICATOR TITLE: H2 Length in Km. of roads with a demarcated road reserve	
Definition: This indicator tracks the length of a secured road reserve in kilometers for both the newly constructed and the old roads. A road reserve is the free space left along a road that is intended to be left free for future use.	
Rationale: Road reserves serve several purposes including providing space for possible future expansion of the road, by also provides space for water run off including greening	
Numerator: Length in Km of roads with secured standard road reserve	
Denominator: Length in Km of all roads	
Unit of measure: Kilometers	Disaggregated By: Type of road
Level: output (Impact, outcome, output)	Data Source: Local Governments/ Ministry of Works and Transport
Data Collection Methodology: Survey	
Frequency of Collection: Every 2 years	
Responsibility for Data Collection: MoWT and Local Governments	
Measurement Notes (optional):	
Baseline: TBD	Target: TBD

Ministry of Gender, Labour and Social Development

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Gender, Labour and Social Development		
INDICATOR TITLE: 11 Percentage of women and men with better livelihoods despite climate shocks		
Definition: This indicator measures the percentage of men and women with better livelihoods (better health, increased incomes and food secure) despite experiencing climate disasters such as drought, floods and land slides.		
Rationale: A high percentage of women and men with better livelihoods despite climate shocks indicates resilience to climate change.		
Numerator: Men and women with better livelihoods despite climate shocks		
Denominator:		
Unit of measure: Percentage	Disaggregated By: Gender (Male and Females)	
Level: outcome (Impact, outcome, output)	Data Source: UNHS	
Data Collection Methodology: Survey		
Frequency of Collection: 2 years		
Responsibility for Data Collection: UBOS		
Measurement Notes (optional):		
Baseline: 2015/2016	Target: 60%	

SECTOR: Gender, Labour and Social Development

INDICATOR TITLE: 12 Proportion of men and women (farming population) practicing climate-smart agriculture

Definition: Climate-smart agriculture (CSA) is an integrative approach to address these interlinked challenges of food security and climate change, that aims at:

- 1. Sustainably increasing agricultural productivity, to support equitable increases in farm incomes, food security and development;
- 2. Adapting and building resilience of agricultural and food security systems to climate change at multiple levels; and
- 3. Reducing greenhouse gas emissions from agriculture (including crops, livestock and fisheries).

Some of the CSA technologies used by crop husbandry farmers include establishment and utilization of shade trees (including fruit types), mulching and water harvesting.

Rationale: Climate smart technologies are CC adaptation techniques aimed at sustainably increasing agricultural productivity, adapting and building resilience and reducing greenhouse gas emissions.

Numerator: Men and women (farming population) practicing climate-smart agriculture

Denominator: Total farming population

Unit of measure: Percentage Disaggregated By: Gender (men and women)

Level: outcome(Impact, outcome, output) Data Source: Local Governments

Data Collection Methodology: Survey

Frequency of Collection: Five years

Responsibility for Data Collection: UBOS

Measurement Notes (optional):

Baseline: Baseline line survey to be conducted | Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Gender, Labour and Social Development

INDICATOR TITLE: 13 Number of men and women farmers accessing timely weather information

Definition: Climate information may include information on consequences of increased temperatures on crops, livestock, invasive species, pests and disease incidents, changes in stream flow due to precipitation shifts, or the number of people likely to be affected by future storm surges.

Rationale: Timely accessibility of weather information results into accurate use of climate information for decision making. Decisions made may include timely planting and type and species of plants.

Disaggregated By: Gender (Male and Female)

Numerator: Number of men and women farmers accessing timely weather information

Denominator: Number of men and women farmers

Unit of measure:	Number
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Level: output (Impact, outcome, output) Data Source: MWE/UNMA reports

Frequency of Collection: Quarterly

Data collection methodology

Responsibility for Data Collection: District Production Officers

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Gender, Labour and Social Development		
INDICATOR TITLE: 14 Proportion of Sector Development Plans integrating Climate Change and Gender		
Definition: Each sector has a sector specific development plan. This indicator tracks whether CC and gender		
activities have been mapped and included in the Sector Development Plans.		
Rationale: Once CC and gender activities are included in the Sector Development Plans, it implies that they		
have been prioritised and budgeted for, and hence will most likely be implemented.		
Numerator: Sector Development Plans CC and gender activities		
Denominator: Sector Development Plans		
Unit of measure: Percentage	Disaggregated By: Sectors	
Level: output (Impact, outcome, output)	Data Source: Sectors plans	
Data Collection Methodology: Sector plan review		
Frequency of Collection: Five years		
Responsibility for Data Collection: NPA		
Measurement Notes (optional): Both CC and gender must be integrated in the sector plan for a sector to be		
marked as compliant to this indicator.		
Baseline: TBD	Target: TBD	

Ministry of Local Government/ National Planning Authority

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: MOLG/NPA		
INDICATOR TITLE: J2 Percentage of Higher level LGs implementing CC interventions in their District Development Plans (DDPs)		
Definition: This indicator measures the extent of district implementing of planned CC activities.		
Rationale: It is one think to included CC activities in the workplans and another to implement them. Implementing CC interventions in their District Development Plans ensures implementation of CC mitigation and adaptation		
Mumerator: Number of LGs implementing CC interventions in their District Development Plans		
Denominator: Total Number of HLGs in Uganda		
Unit of measure: Percent	Disaggregated By: none	
Level: outcome(Impact, outcome, output)	Data Source: HLG Assessment reports	
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Local Government		
Measurement Notes (optional): The district should have implemented at least 50% of planned activities.		
Baseline: TBD	Target: 100%	

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: MOLG/NPA		
INDICATOR TITLE: J1 Percentage of LGs that have integrated climate change interventions in their DDPs		
Definition: This indicator measures the coverage CC mainstreaming interventions across the country. CC mainstreaming is implied by incorporation of various CC activities in various DDPs.		
Rationale: Mainstreaming CC interventions into DDP implies commitment to implement CC activities, and high likelihood of CC activities being implemented.		
Numerator: Number of HLGs that have mainstreamed CC interventions in their DDPs		
Denominator: Total Number of HLGs in Uganda		
Unit of measure: Percentage	Disaggregated By: District	
Level: Outcome (Impact, outcome, output)	Data Source: DDP Review Reports	
Data Collection Methodology:		
Frequency of Collection: Five years		
Responsibility for Data Collection: NPA		
Measurement Notes (optional):		
Baseline: 38	Target: 115	

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: MOLG/NPA		
INDICATOR TITLE: J3 Number of LGs spending at least 5% of their non-wage budget for CC activities		
Definition: This indicator tracks the proportion of district budgets that are spent on CC interventions. CC interventions require adequate budgeting.		
Rationale: Implementation CC interventions requires adequate budgeting in order to implemented to the right scale and scope.		
Numerator: Number of LGs spending at least 10% of their budget for CC activities per financial year		
Denominator: Total Number of LGs in Uganda		
Unit of measure: Number	Disaggregated By: District	
Level: output(Impact, outcome, output)	Data Source: Quarter progress report	
Data Collection Methodology: Document review		
Frequency of Collection: quarterly		
Responsibility for Data Collection: MoLG		
Measurement Notes (optional):		
Baseline: TBD	Target: 100%	

Ministry of Finance, Planning and Economic Development

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: MFPED		
INDICATOR TITLE: K1 Percentage funding allocation for climate change		
Definition: This indicator tracks the amount of funding from the national budget directed towards CC. This figure will most likely be reflected in line items under the Ministry of water and environment/CCD.		
Rationale: To measure sustainable investment in CC activities, we will monitor trends in the amount and percentage of national budget allocated to CC. Public investment CC demonstrates the government's commitment address and guard against the effects of CC.		
Numerator: Amount of national budget in Uganda Shillings allocated to CC		
Denominator: Total national budget amount in Uganda Shillings		
Unit of measure: Uganda Shillings	Disaggregated By: None	
Level: outcome(Impact, outcome, output)	Data Source: National Budget	
Data Collection Methodology:		
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Finance, Planning and Economic Development		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Education

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Education		
INDICATOR TITLE: L1 Percentage of education institutions with functional water facilities		
Definition: The indicator tracks the availability of water in education institutions (schools) during drought		
periods.		
Rationale: The availability of water supply at education institutions during throughout the year implies the		
functionality of the water supply system.		
Numerator: Number of education institutions with functional water facilities		
Denominator: Total number of education institutions in the catchment area		
Unit of measure: Percent	Disaggregated By: Level (Primary, Secondary and tertiary)	
Level: outcome(Impact, outcome, output)	Data Source: Local Governments, MoES	
Data Collection Methodology: Survey, routine monitoring		
Frequency of Collection: Quarterly and annually		
Responsibility for Data Collection: Ministry of Education and Sports, LGs (water department), MoWE		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

SECTOR: E	ducation
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INDICATOR TITLE: L2 Percentage of education institutions implementing CC mitigation and adaptation activities

Definition: This indicator measures the extent of implementing CC mitigation and adaptation activities in education institutions. The mitigation and adaptation activities may include conservation agriculture; carbon sequestration through low- or no-till practices; increased use of climate information for planning, risk reduction, and increasing resilience; increased energy efficiency; natural resource management practices that increase resilience to CC.

Rationale: This indicator aims at tracking the implementation of CC mitigation and adaptation activities with in education institutions.

Disaggregated By: Level (Primary, Secondary and tertiary)

Disaggregated By: Level (Primary, Secondary and tertiary)

Numerator: Number of education institutions implementing CC mitigation and adaptation activities

Denominator: Total number of education institutions

Unit of measure: Percent

Level: outcome (Impact, outcome, output) Data Source: Survey report, monitoring report

Data Collection Methodology: Survey, routine monitoring

Frequency of Collection: Annually

Responsibility for Data Collection: Ministry of Education and Sports, MoWE (climate change department)

Measurement Notes (optional):

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Education

Baseline: TBD

INDICATOR TITLE: L3 Proportion of education institutions with functional rain water harvesting facilities.

Definition: This indicator measures the presence of rainwater harvesting facilities that actually contain and provide water.

Rationale: Water harvesting reflects CC adaptation and mitigation. The more the number of rain water harvesting facilities constructed in education institutions the more rain water harvested, both for institutional and agricultural use.

Numerator: Number of functional rain water harvesting facilities constructed in education institutions

Denominator: Total number of education institutions.

Unit of measure: percentage

Level: Output (Impact, outcome, output) Data Source: Survey report

Data Collection Methodology: Survey, routine monitoring

Frequency of Collection: Annually

Responsibility for Data Collection: Ministry of Education and Sports

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Education		
INDICATOR TITLE: L4 Number of trees planted and maintained in school compounds		
Definition: This indicator tracks the number of trees planted and maintained in school compounds as one of the CC mitigation and adaptation activities in education institutions.		
Rationale: Increase in number of trees planted and maintained reflects CC mitigation and adaptation implementation. Trees contribute to the rain production cycle, hence positively influencing climate.		
Numerator: Number of trees planted and maintained in school compounds.		
Denominator: N/A		
Unit of measure: Number	Disaggregated By: Level (Primary, Secondary and tertiary)	
Level: Output (Impact, outcome, output)	Data Source: Local Governments	
Data Collection Methodology: Survey		
Frequency of Collection: annually		
Responsibility for Data Collection: Ministry of Education and Sports		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

Institutions (LGs, Health Facilities (HFs) and Schools)

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Institutions (LGs, Health Facilities	(HFs) and Schools)	
INDICATOR TITLE: M1 Percentage of gover	mment institutions with functional water facilities during drought.	
Definition: This indicator tracks the proporti	on of government institutions with water supply during prolonged	
dry spells. The institutions targeted for this in	dicator include LGs, Health Facilities and Schools, since they are	
some of the biggest LG 'landlords'.		
Rationale: The purpose of this indicator is to	track water availability during drought periods among government	
institutions.		
Numerator: Number of government institutions with functional water facilities during drought periods		
Denominator: Total number of government institutions		
Unit of measure: Percentage	Disaggregated By: type (Health facilities, schools and LGs)	
Level: Outcome (Impact, outcome, output)	Data Source: Ministry of Education and Sports, MOH and MoLG	
Data Collection Methodology: Survey		
Frequency of Collection: Annually		
Responsibility for Data Collection: Ministry of Education and Sports, MOH and MoLG		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Education		
INDICATOR TITLE: M2 Percentage of instit	utions implementing CC mitigation and adaptation activities	
Definition: This indicator measures the extent of implementing CC mitigation and adaptation activities in institutions. The mitigation and adaptation activities may include conservation agriculture; carbon sequestration through low- or no-till practices; increased use of climate information for planning, risk reduction, and increasing resilience; increased energy efficiency; natural resource management practices that		
Rationale: This indicator aims at tracking the implementation of CC mitigation and adaptation activities within institutions.		
Numerator: Number of education institutions implementing CC mitigation and adaptation activities		
Denominator: Total number of education institutions		
Unit of measure: Percent	Disaggregated By: Institution	
Level: outcome(Impact, outcome, output)	Data Source: Survey report	
Data Collection Methodology: Survey		
Frequency of Collection: Annually		
Responsibility for Data Collection: MoLG, MoES and MOH		
Measurement Notes (optional):		
Baseline: TBD Target: TBD		

KCCA and Municipalities

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Energy

INDICATOR TITLE: N1 Percentage use of renewable energy

Definition: renewable energy is energy that is collected from resources that are naturally replenished and hence do not get depleted. This indicator measures the adoption and use of renewable energy in KCCA and municipalities at household and institutional levels.. Renewable energy may include bio-fuels, hydro power, wind, solar, the institutions that will be tracked are educational institutions, health facilities, places of worship, hotels, restaurants and bars.

Rationale: This indicator is useful to track the level of adoption and use of alternative sources of energy as well as renewable energy technologies in the KCCA & municipalities.

Numerator: Total Number of HHs and institutions in KCCA & municipalities using renewable energy

Denominator: Total number of households and institutions in KCCA and municipalities

Unit of measure: PercentageDisaggregated By: households vs institutions, by type of energyLevel: outcome (Impact, outcome, output)Data Source: UNHS and institutional survey reports

Data Collection Methodology: Survey (UNHS)

Frequency of Collection: two years

Responsibility for Data Collection: UBOS

Measurement Notes (optional):

Baseline: TBD

Target: 70

SECTOR: Transport

INDICATOR TITLE: N2 Amount of greenhouse gas in the atmosphere

Definition: A greenhouse gas (GHG) is a gas in an atmosphere that absorbs and emits radiation within the thermal infrared range. The primary greenhouse gases in Earth's atmosphere are water vapor, carbon dioxide, methane, nitrous oxide, and ozone. The indicator measures amount of GHG in the atmosphere of KCCA and Municipalities.

Rationale: It has been estimated that if GHG emissions continue at the present rate, earth's surface temperature will continue to rise, with potentially harmful effects on ecosystems, biodiversity and the livelihoods of people worldwide.

Numerator: Amount of GHG in the atmosphere

Denominator: N/A

Unit of measure: CO₂e Disaggregated By: by Type of gas

Level: outcome(Impact, outcome, output) Data Source: KCCA and Municipalities survey report

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Waste Management

INDICATOR TITLE: N3 Percentage of waste recycled

Definition: Recycling is the process of converting water materials into reusable objectives to prevent waste of potentially useful materials, reduce the consumption of fresh raw materials, energy usage, air water pollution by decreasing the need for conventional waste disposal. This indicator will measure the amount of waste materials recycled within KCCA and municipalities. the amount of waste recycled may exceed the total amount of waster collected.

Rationale: Increase in percentage of waste recycled reflects good waste management practices and thus good environment management.

Numerator: Tonnage of waste collected and recycled

Denominator: Tonnage of waste collected

Unit of measure: Percentage	Disaggregated By: type
level: outcome(Impact outcome output)	Data Source: KCCA and Municipalities

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Planning		
INDICATOR TITLE: N4 Proportion of land area in the municipality covered by the Physical Development		
Plan		
Definition: A Physical Development Plan is a detailed urban use plan encompassing various disciplines, which		
seek to order and regulate land use in an efficient and ethical way, thus preventing land-use conflicts.		
Rationale: Unplanned use of land, including urban settlement interferes with the environment.		
Numerator: Land area in the municipality covered by the Physical Development Plan		
Denominator: Total land area in the municipality		
Unit of measure: hectares	Disaggregated By: district	
Level: outcome (Impact, outcome, output)	Data Source: MoLHUD reports	
Data Collection Methodology: Routine data collection by MoLHUD		
Frequency of Collection: annually		
Responsibility for Data Collection: MoLHUD		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Waste Management		
INDICATOR TITLE: N5 volume of waste col	lected and disposed at waste management facility	
Definition: This indicator tracks the volume of waste that is moved and deposited in a designated waste management facility, it also tracks the waste that is discharged to the environment. These are solid waste, faecal waste and waste water		
Rationale: Increase in volume of waste collected and disposed at the management facility reflects good waste management and thus good environment and ecosystem management.		
Numerator: volume of waste collected and disposed at waste management facility		
Denominator: Total volume of waste produced in urban area		
Unit of measure: Tonnage/volume	Disaggregated By: type	
Level: Output (Impact, outcome, output)	Data Source: KCCA and Municipality reports	
Data Collection Methodology: Routine monitoring and reporting		
Frequency of Collection: annually		
Responsibility for Data Collection: KCCA and Municipalities		
Measurement Notes (optional):		
Baseline: TBD	Target: TBD	

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INDICATOR TITLE: N6 Area covered by designated green spaces

Definition: The indicator measures the Area (in square meters) covered by designated green spaces in KCCA and municipalities.

Rationale: Green spaces play an important role of balancing ecological factors in an area.

Numerator: Area in KCCA and municipalities covered by designated green spaces

Denominator: Total Area (in square meters) of KCCA and municipalities

Unit of measure: Square meters Disaggregated By: District

Level: output (Impact, outcome, output) Data Source: KCCA and Municipalities

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

PERFORMANCE INDICATOR REFERENCE SHEET		
SECTOR: Planning		
INDICATOR TITLE: N7 percentage of infrastructure with appropriate drainage system		
Definition: Drainage is the natural or artificial removal of surface and sub-surface water from an area.		
Rationale: Poor drainage contributed to hazards such as floods as well as waterborne diseases.		
Numerator: Number of infrastructure with appropriate drainage system		
Denominator: Total number of infrastructure		
Unit of measure: percentage	Disaggregated By: type of insfrasture	
Level: output (Impact, outcome, output)	Data Source: KCCA and district	
Data Collection Methodology: Survey		
Frequency of Collection: Annually		
Responsibility for Data Collection: KCCA and Municipalities		
Measurement Notes (optional):		
Baseline: TBD Target: TBD		

SECTOR: Energy

INDICATOR TITLE: N1 Percentage use of renewable energy

Definition: This indicator measures the adoption and use of renewable energy among KCCA and municipalities. Renewable energy may include bio-fuels, wind, solar, improved cook stoves and LPG at household and institutional levels.

Rationale: This indicator is useful to track the level of adoption and use of alternative sources of energy as well as renewable energy technologies in the municipalities.

Data Source: UNHS and institutional survey reports

Numerator: Percentage using of renewable energy

Denominator: Total number of households and institutions in KCCA and municipalities

Unit of measure: Percentage Disaggregated By: households vs institutions

Level: outcome (Impact, outcome, output)

Data Collection Methodology: Survey Frequency of Collection: Annually

Responsibility for Data Collection: Ministry of Energy/UBOS

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Transport

INDICATOR TITLE: N2 Amount of green house gas emission reduction

Definition: A greenhouse gas (GHG) is a gas in an atmosphere that absorbs and emits radiation within the thermal infrared range. The primary greenhouse gases in Earth's atmosphere are water vapor, carbon dioxide, methane, nitrous oxide, and ozone. The indicator measures amount of GHG emission reduction in KCCA and Municipalities.

Rationale: It has been estimated that if GHG emissions continue at the present rate, earth's surface temperature will continue to rise, with potentially harmful effects on ecosystems, biodiversity and the livelihoods of people worldwide.

Numerator: Amount of GHG emission

Denominator: N/A

Unit of measure: CO₂e Disaggregated By: Type

Level: outcome (Impact, outcome, output) Data Source: KCCA and Municipalities survey report

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

SECTOR: Waste Management

INDICATOR TITLE: N3 Percentage of waste collected and recycled

Definition: Waste collection is a part of the process of waste management. It is the transfer of solid waste from the point of use and disposal to the point of treatment or landfill. Waste collection also includes the collection of recyclable materials that technically are not waste, as part of a municipal landfill diversion program. This indicator measures the quantity of waste recycled out of the total garbage collected.

Rationale: Increase in percentage of waste collected and recycled waste reflects good waste management and thus good environment and ecosystem management.

Disaggregated By: type

Numerator: Tonnage of waste collected and recycled

Denominator: Tonnage of waste collected

Unit of measure: Percentage

Level: outcome (Impact, outcome, output) Data Source: KCCA and Municipalities

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET

SECTOR: Planning

INDICATOR TITLE: N4 Area in the municipality covered by the Physical Development Plan

Definition: A Physical Development Plan is a detailed urban use plan encompassing various disciplines, which seek to order and regulate land use in an efficient and ethical way, thus preventing land-use conflicts.

Rationale: Unplanned use of land, including urban settlement interferes with the environment.

Target:

Numerator: Area in the municipality covered by the Physical Development Plan

Denominator: Total area in the municipality

Unit of measure: hectares Disaggregated By: district

Level: outcome (Impact, outcome, output) Data Source: survey reports

Data Collection Methodology: Survey

Frequency of Collection: annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline:

PERFORMANCE INDICATOR REFERENCE SHEET	
SECTOR: Waste Management	
INDICATOR TITLE: N5 Tonnage of waste collected and disposed at waste management facility	
Definition: This indicator tracks the volume of was that is moved and deposited in a designated waste management facility.	
Rationale: Increase in volume of waste collected and disposed at the management facility reflects good waste management and thus good environment and ecosystem management.	
Numerator: Tonnage of waste collected and disposed at waste management facility	
Denominator: Total tonnage of waste produced	
Unit of measure: Tonnage	Disaggregated By: N/A
Level: Output (Impact, outcome, output)	Data Source: KCCA and Municipality reports
Data Collection Methodology: Routine monitoring and reporting	
Frequency of Collection: annually	
Responsibility for Data Collection: KCCA and Municipalities	
Measurement Notes (optional):	
Baseline: TBD	Target: TBD

PERFORMANCE INDICATOR REFERENCE SHEET SECTOR: Planning INDICATOR TITLE: N6 Area (in square meters) covered by designated green spaces Definition: The indicator measures the Area (in square meters) covered by designated greenhouse spaces in KCCA and municipalities. Rationale: Green spaces play an important role of balancing ecological factors in an area. Numerator: Area in KCCA and municipalities (in square meters) covered by designated green spaces Denominator: Total Area (in square meters) of KCCA and municipalities Unit of measure: Square meters Disaggregated By: District Data Source: KCCA and Municipalities Level: output (Impact, outcome, output) Data Collection Methodology: Survey Frequency of Collection: annually Responsibility for Data Collection: KCCA and Municipalities Measurement Notes (optional): Baseline: TBD Target: TBD

SECTOR: Planning

INDICATOR TITLE: N7 Number of infrastructure with good standard drainage system

Definition: Drainage is the natural or artificial removal of surface and sub-surface water from an area. Many agricultural soils need drainage to improve production or to manage water supplies.

Rationale: Poor drainage contributed to hazards such as floods as well as waterborne diseases.

Numerator: Number of infrastructure with good standard drainage system

Denominator: Total number of infrastructure with good standard drainage system

Unit of measure: Number Disaggregated By: District

Level: output (Impact, outcome, output) Data Source: KCCA and Municipalities

Data Collection Methodology: Survey

Frequency of Collection: Annually

Responsibility for Data Collection: KCCA and Municipalities

Measurement Notes (optional):

Baseline: TBD

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