







National TNA Committee Kick -Off Online Meeting

0900-1100 hrs (GMT+2), 26 January 2022, Workshop Report

Meeting link: Microsoft Teams

CONTEXT

Understanding our climate change technology needs is the starting point for effective action on climate change. By understanding these needs we can determine how to reduce greenhouse gas emissions and adapt to the adverse impacts of climate change. The goal of a Technology Needs Assessment (TNA) and action planning exercise is to target the transfer and diffusion of technologies for mitigation and adaptation. A TNA also supports national sustainable development, builds national capacity and facilitates the implementation of prioritized technologies. Therefore, this project seeks to update and develop a comprehensive TNA and associated action plan of climate change mitigation and adaptation needs identified in Botswana's most vulnerable economic sectors. The Ministry of Environment, Natural Resources Conservation and Tourism (MENT) through the Department of Meteorological Services (DMS), has initiated the exercise. The outcomes set out will serve as guiding for the implementation approach in the project as well as the TNA methodology (as laid out in the <u>TNA Step-by –Step guidance</u>) that United Nations Environment Programme (UNEP) Technical University of Denmark (DTU) Partnership has developed.

OBJECTIVE

MENT is establishing a National TNA Committee, which will provide technical expertise in the implementation of the TNA process and vet & validate policy recommendations, as they will need to be if implemented. The Inception Meeting is designed to officially launch the National TNA Project in Botswana, bringing together (i) the technical support providers, (ii) the national project implementation team and (iii) the key stakeholder who will actively contribute to the project. More specifically, the inception meeting will:

- a) Provide a formal introduction of the National TNA project to and the implementing teams to the key national stakeholders.
- b) Present the TNA methodology and main steps to the participants;
- c) Briefly discuss the process of stakeholder engagement and the role of national stakeholders in the TNA project.

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AGENDA

Time	Activity	Responsible
09:00 - 09:05	Opening Prayer	Volunteer
09:05 - 09:15	Welcome Remarks	Deputy Permanent Secretary – Environmental Affairs
09:15 - 09:20	Introductions	All Participants
09:20 – 09:35	Presentation #1: Introduction to the TNA Project	UDP
09:35 – 09:45	Q&A round 1	All participants
09:45 – 09:55	Presentation #2: Key steps of the TNA Project	UDP
09:55 – 10:05	Q&A round 2	All participants
10:05 – 10:20	Presentation #3: Stakeholder Engagement and the Role of the stakeholders in the TNA Project	UDP
10:20 - 10:30	Q&A round 3	All participants
10:30 - 10:50	Sector Prioritisation	UDP & Sector Experts
10:50 - 11:00	Q&A round 4	All participants
11:00	Closing	Director – Department of Meteorological Services

MINUTES

1. Opening, Welcome Remarks and Introductions

The Chair of the Meeting, Mr. Gopolang from the Botswana Department of Meteorological Services, started the National TNA Committee Kick-Off meeting at 09:20 am, greeting the remote participants. Acting Permanent Secretary of Environmental Affairs, Ms. Maselesele provided welcoming remarks, highlighting the objective of the project. Hereafter the Chair further presented on the objective of the meeting and the agenda, whereafter a round of introductions between all participants was conducted.

2. Introduction to the TNA project

Ms. Lucy Gregersen from UNEP DTU Partnership presented an introduction to the TNA project, the slides and information can be found in the following section "Presentations".

During the following Q & A session, a question was raised about some of the documents shared with the meeting invite (Draft National TNA Committee Constitution, Draft TNA work plan) and why generally sections in these on Mitigation preceded those on Adaptation. It was suggested that Adaptation sections should come before Mitigation. It was clarified that there was no particular reason behind this, and the comment was taken note of for future reports and deliverables. Also, it was commented that note of cross-cutting issues between sectors should be taken into account as well.

3. Key Steps of the TNA project

Mr. Gordon Mackenzie from UNEP DTU Partnership presented an introduction to the methodology of the TNA project. The slides and information can be found in the following section "Presentations".

During the Q & A session, there was further discussion on the sectors that were pre-identified in the Project Readiness Proposal to the GCF. One participant commented that it is important to align and connecting the TNA project together with the NAP process that is currently ongoing in Botswana as much as possible, so that the results can add value to other climate change activities (such as the NAP) that are ongoing in the country.

There were also discussions on how the data to support the TNA methodology and analysis will be gathered, as e.g. the users of the technology should also be brought into the country process of developing the TNA. The clarifications provided were that the TNA is not a desktop study, this is only at the initial stages to gain understanding what already has been done or is underway in the country. Wide stakeholder consultation is a core part of the TNA as country-driven process, although due to the current COVID-pandemic this is currently mainly conducted virtually. But it is key to get the views of a broad range of stakeholders (such as the actual users of the technology as well, the suppliers, the industry, the policy makers etc.)

4. Stakeholder Engagement and the Role of the stakeholders in the TNA project

Mr. Gordon Mackenzie and Ms. Lucy Gregersen from UNEP DTU Partnership presented on stakeholder engagement and the role of stakeholders in the TNA project. The slides and information can be found in the following section "Presentations".

During the Q & A session, there were questions about the status of establishing the National TNA Committee. The response was that the institutions presented on one slide were contacted, and most institutions have now sent official nominations of representatives for the National TNA Committee. The list of representatives nominated will be shared after meeting. But the list can be revisited, should any relevant institutions have been overlooked based on feedback from stakeholders so it is all-inclusive.

It was also clarified that the National TNA Committee will broadly be a steering committee to help with oversight of the implementation and validation of reports on the process. The sectoral working groups will function as a form of technical committee, that will work closely with the national sectoral experts on data collection and the methodology followed.

There was also discussion on what had informed the selection of the sectors pre-identified in the GCF Readiness Proposal for the project as well as the TORs for the project. Regarding the pre-identified sectors and questions to the TORs for the consultants, these were shared with participants as clarification after the meeting. Ms. Nadege Trocellier also presented that the purpose of the current project was to update the TNA conducted in Botswana in 2004, and that these sectors broadly pre-defined for the update include mainly renewable energy, energy efficiency (built environment), industrial processes for mitigation and agriculture & water for the adaptation. The TOR to be implemented, are those that have been approved by the Green Climate Fund in the <u>Readiness proposal</u> for the update of the TNA in Botswana. It was also highlighted that proposal for the project reflects the needs of the country and was submitted by the country to the Green Climate Fund.

5. Sector Prioritization

The sectoral consultants (Mr. Elenimo Khonga, Mr. Hillary Masundire, and Mr. Peter Zhou,) presented on the sector prioritization work conducted and the stakeholders identified for the sectoral working groups so far.

There were further discussions on the sectors pre-identified in the GCF Readiness Proposal. Ms. Nadege Trocellier clarified that the GCF Readiness Proposal was drafted as a co-operation between the Green Climate Fund, the Government of Botswana through the NDA office, and CTCN. It was agreed that the TORs should be re-circulated after the meeting and that at the next National TNA Committee meeting, the NDA will be asked to give their input on the preparation and approval of the GCF Readiness Proposal, as well as the NDE as the focal point for the CTCN.

Participants also came with suggestions on which other stakeholders could be relevant to consider for the mitigation and adaptation sectoral working groups, e.g. that financial institutions should be considered. Suggestions were also welcomed after the meeting is over.

6. Next Steps and Closing

Mr. Balisi Gopolang concluded by thanking the participation of the members and guests, closing the National TNA Committee Kick-Off Meeting at 11:59 am.

PRESENTATIONS

Please find below the four presentations given during the meeting.

Presentation 1:



TNA Committee Inception Meeting

Contents

- Introduction to the TNA Project
- Key Steps of the TNA Project
- Stakeholder Engagement and the role of the TNA Committee & stakeholders
- Sector Prioritisation







UNEP DTU Partnership

• Collaborating Centre supporting UN Environment for 30 years, activities fully aligned with the UNEP Program of Work

•70 economists and scientists from more than 27 different nations •Integral part of DTU Management Engineering at the Technical University of Denmark with access to a broad range of energy scientists and specialists •A wide network of collaborating institutions and partners in more than 70 developing countries

•A non profit public institution with highest standards on procedures, transparency and accounting















What is a Technology Needs Assessment?

TNAs are a set of nationally driven activities aimed at helping developing countries to identify and analyse their mitigation and adaptation technology priorities

Key features:

- country driven implemented by national TNA teams
- stakeholder involvement
- capacity building
- align with national development objectives
- explore synergies with other national processes . e.g. NDC & Green Climate Fund Country Programme
- Funded by the GCF, implemented by UN Environment Climate Technology Centre & Network, through UNEP DTU
- UNEP and UDP have, since 2009, supported more than 80 countries in conducting their TNA







The 3 steps of the TNA process

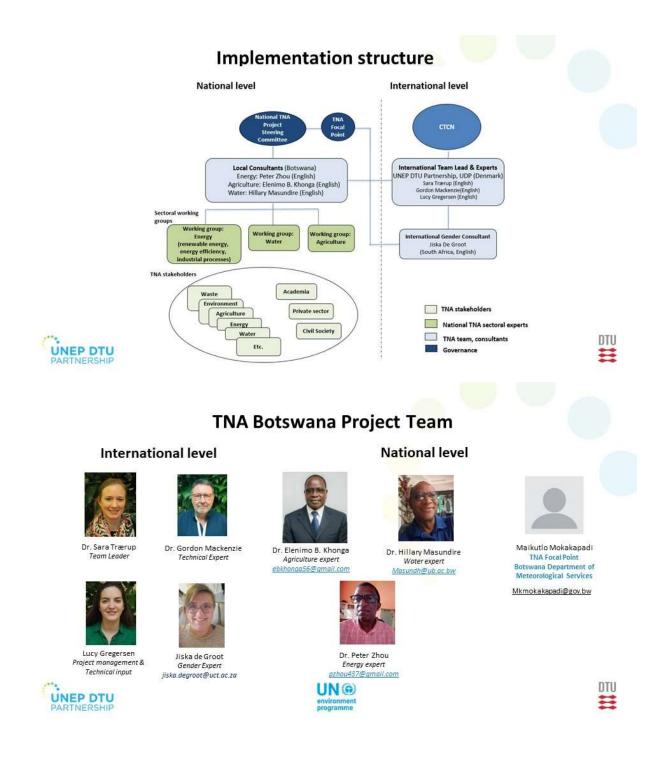


- 1. To identify and prioritise mitigation/adaptation technologies for selected sectors/sub-sectors
- 1. To identify, analyse and address **barriers** hindering the deployment and diffusion of the prioritised technologies including enabling the framework for the said technologies
- 1. To articulate, based on the inputs obtained from the two previous steps, a **Technology Action Plan (TAP)** with suggested actions presented in terms of project ideas









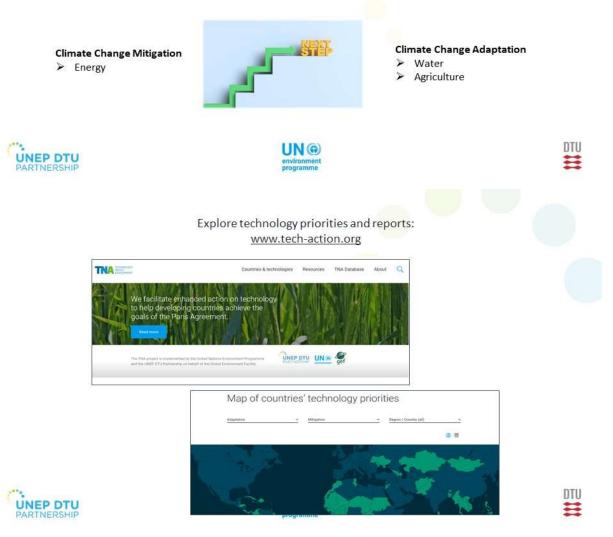






Next steps

- Next meetings:
 - Virtual training session on the TNA process and methodology
 - First meetings with Sectoral Working Groups
- Detailed work plan & TNA Committee Constitution finalized based on input
- First draft of the Sector Prioritization Report



Final remarks

The TNAs support:

- ✓ national strategies,
- ✓ policies,
- ✓ programmes,
- ✓ projects,
- ✓ inputs to NDCs and other processes under the Convention, such as National Adaptation Plans

More information on TNAs available at: <u>www.tech-action.org</u> and <u>http://unfccc.int/ttclear/</u> FROM NEEDS TO IMPLEMENTATION. STORIES FROM THE TECHNOLOGY NEEDS ASSESSMENTS



TNA TECHNOLO NETOS ASSESSME

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Presentation 2:

Methodology for the Technology Needs Assessment (TNA)

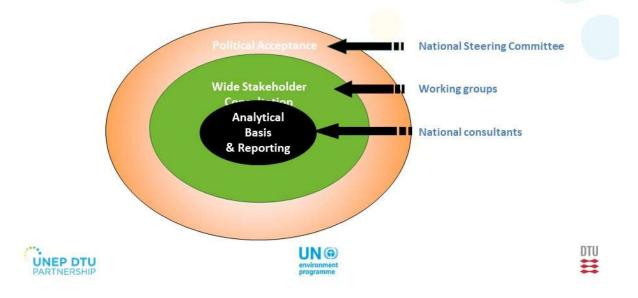
An Overview

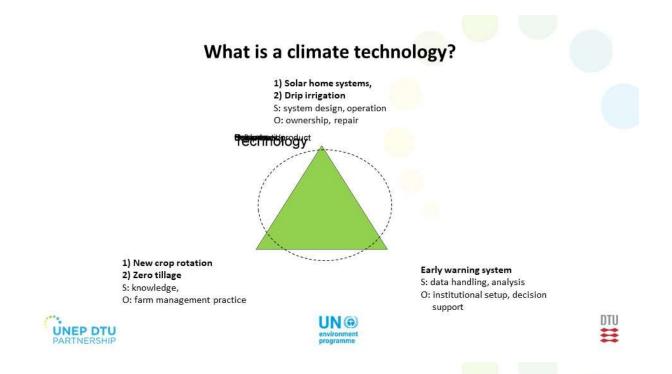
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Role of in-country institutional elements





Mitigation and Adaptation Technologies

- Mitigation reducing GHG emissions / enhancing sinks
 - renewable energy replacing fossil fuel
 - energy savings
 - tree planting
 - agricultural / livestock practices
 - waste management
 - etc.

· Adaptation - avoiding or lessening impacts and increased resilience

- water supply
- · land use changes
- new crops
- coastal zone
- early warning
- etc.







The 3 steps of the TNA process



- 1. To identify and prioritise mitigation/adaptation technologies for selected sectors/sub-sectors
- 1. To identify, analyse and address **barriers** hindering the deployment and diffusion of the prioritised technologies including enabling the framework for the said technologies
- 1. To articulate, based on the inputs obtained from the two previous steps, a **Technology Action Plan (TAP)** with suggested actions presented in terms of project ideas





Step 1: Identification and Prioritisation of Technologies

- Objective
 - To select a few technologies for market analysis and eventual inclusion in the Technology Action Plan
- Inputs
 - Review of existing planning documents (NDC, NAP, TNA, NAPA, National communications, Energy plans, Renewable energy plans, PRSP, etc)
 - Stakeholder experience and knowledge
 - Information from technology database (TechWiki)
 - Multi Criteria Analysis (MCA) conducted by groups of informed stakeholders
 - Contribution to development goals (poverty, social, environment)
 - Economically competitive compared to the baseline
 - Significant reduction potential
 - industrial development, employment







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Step 2: Barrier analysis and enabling framework

Barrier Analysis - objective

 To analyse market conditions for the each selected technology and to identify barriers for enhanced deployment

Methodology

 Facilitated workshops with sectoral and technology working groups (5-10 stakeholders)

Output

- Barriers prioritized and grouped into main categories. For example:
 - Institutional
 - Legal
 - Technical
 - Social
 - Cultural





Step 2: Continued - enabling framework

Enabling Framework - objective

- Find possible solutions to address barriers

Possible solutions

- Economic incentives
 - Tax exemptions, smart subsidies, cheap financing
 - Governmental finance schemes
- Institutional changes
 - Energy efficiency, renewable energy (funding agencies)
 - Flood control, coastal zone management (regional, national)
- Legal changes
 - Standards, Building codes, lighting standards
 - Power purchase agreements







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Overview of Training Materials

TNA Process Step	Main Guidance and tools	Supporting Guidance and	Training
		tools	
	 TNA Step by Step 	 Gender responsive 	
	 Report template 	TNA guidebook	
	 Organising the National Technology Needs 		
	Assessment (TNA) Process		
	 Stakeholder Guidenote 		
	TNA Step by Step	Gender responsive	
	Report template	TNA guidebook	
	2 Guidance notes on MCA for adaptation	MCA Guidebook	
	and mitigation	 <u>Climate Techwiki</u> 	
	 MCA Tool: Generic template in Excel for 	 CBA for Adaptation 	
	Adaptation and Mitigation & examples	 Help Desk (RC's) 	
	 Technology Factsheets 	- Economic	
		evaluation of	
	TNA Sector Technology Guidebooks	measures guide	
		note	
	Stakeholder Guidenote	Gender responsive	
	Report template	TNA guidebook	
	Barrier guidebook	Help Desk (RC's)	
Technology Action	3.	· · · · · · · · · · · · · · · · · · ·	
Plan (including	3		
project ideas)		×	
Project Concept note	×		
	×		
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Presentation 3:

Stakeholder Engagement in the TNA Process







Why do we need Stakeholder Engagement in the Country driven process

• TNA covers many sectors and technologies

• Different individuals and groups involved

• Expertise and knowledge resides in a broad spectrum of individuals and groups





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Why do we need Stakeholder Engagement in the

TNA process?

- We need to harvest this wealth of information by engaging with these individuals
- Stakeholders provide (nationally specific information) input to the process
- Promotes national ownership and understanding of the TNA







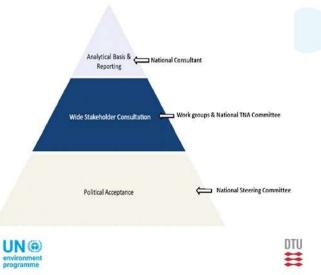


TNA Institutional Structure

The proposed institutional structure is intended to serve three conditions for a successful TNA process:

- 1. Political Acceptance
- 1. Wide Stakeholder Consultation
- 1. Analytical Basis and Reporting





Political Acceptance

- The TNA process is not an end in itself but a process that aims to integrate the climate technology concept into the national strategies and plans of the countries.
- It is necessary to scale up this process and reach the implementation of the project ideas.
- It is therefore necessary to include a group of stakeholders able to support these ideas in the political arena.
- High level involvement will show the relevance of the project for decision makers.







- Legitimacy and ownership require ample representation from different stakeholders, in order to adapt the process to the specific context of each country.
- An inclusive space for stakeholders with local capacity and knowledge that can provide useful insight to the process is necessary.
- Through a highly consultative and participatory process, stakeholders will link elements or steps of the TNA process with local projects, relevant processes and sustainable development programmes and plans.



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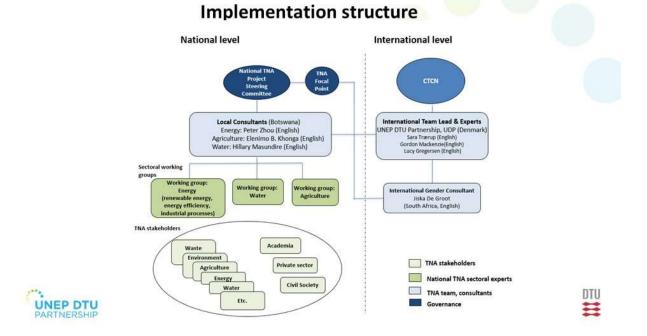
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Analytical Basis and Reporting

- Stakeholders will provide legitimacy to the process through technical expertise, scientific rigor utilisation of the best data available
- Since data availability is often an issue in the developing world, some of the TNA steps will require expert judgement and opinion.
- The inclusion of renowned experts in the process is highly beneficial for this purpose.







National TNA Committee

Objective

- Providing relevant data and info to the TNA
- Be active in the TNA process
- Overseeing implementation
- Ensuring validation of the deliverables based on agreed timelines
- Coordinating with the broader stakeholders within priority sectors as necessary

Members

- Relevant stakeholders to the TNA process: Ministries, Departments, Private Sector Organisations, Academia, CSO, Finance institutions
- Will meet based on agreed work plan





TNA Committee members

Ministries

- Ministry of Environment, Natural Resources Conservation & Tourism
- Ministry of Finance and Economic Development
- Ministry of Agricultural Development and Food Security
- Ministry of Health and Wellness
- Ministry of Investment, Trade and Industry
- Ministry of Transport and Communications
- Ministry of Local Government and Rural Development
- Ministry of Infrastructure and Housing Development
- Ministry of Nationality, Immigration and Gender



Departments

- Department of Environmental Affairs
 Department Of Waste Management
- and Pollution Control Department of Water Affairs and
- Sanitation Department of Crops Production
- Department of Animal production
- Department of Research, Science and Technology
- Department of Facilities Management
- Department of Water Affairs
- Department of Energy

Other

- Botswana International University of Science and Technology
- Botswana Institute for Technology, Research & Innovation
- Botswana Climate Change Network
- Botswana University of Agriculture and Natural Resources
- University of Botswana
- Statistics Botswana
- Botswana Power Corporation
- Botswana Energy Regulatory Authority
- Botswana Bureau of Standards
- Botswana Council of Non-Governmental Organisations
- Botswana Innovation Hub
- Solar Industries Association of Botswana
- Business Botswana
- Water Utilities Corporation









Meeting Schedule

Meeting	Tentative date	Activity	Agenda
1	February 2021	1.1	- Staff Training Workshop (virtual)
2	January 2021	1.2	- National TNA Committee Workshop informing the TNA process (virtual)
3	Feb-March 2021	2.2	 TNA report stakeholder workshops (1 per sector)
4	June-August 2022	2.4	 National validation TAPs (1 per sector)
5	August 2022 - By end of project	2.5	 TBD National training seminars to support implementation of the TAP





Sectoral Working Groups

- Objective
 - Formed under the National TNA Committee to allow for a wider participation of key stakeholders.
 - Provide inputs to: Identify prioritised sectors, identify prioritise technologies and validating final selection thereof, development of TAP (incl. barriers), and review TAP for each sector.

Members

- Defined based on input from Committee
- Groups shall be organized by sector/expertise with equal gender representation.
- Chairs of the groups can organise & convene working group meeting as necessary and are responsible for collecting feedback and opinions from group members.

Sectors

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- Indicative list of sectors and themes which working groups may be formed on:
 - Energy (renewable energy)
 - Energy efficiency (built environment)
 - Industrial Processes

- Agriculture
- Water







Technology Working Groups

Objective

- providing information to private sector stakeholders, on international and national experience with the technology in terms of economy, scale, innovative business models, support schemes, funding mechanisms
- collecting inputs from private sector actors on which barriers for diffusion of the technology in Botswana they find most important, and on which policy measures the private sector would suggest in the Botswana context (especially on finance)

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- Members
 - Private sector stakeholders





THANK YOU Q & A



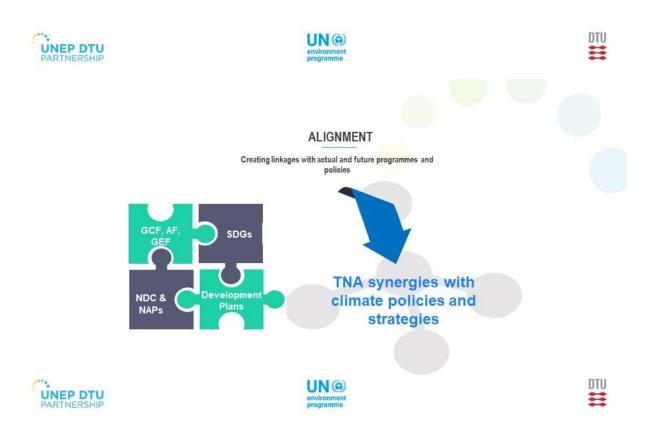


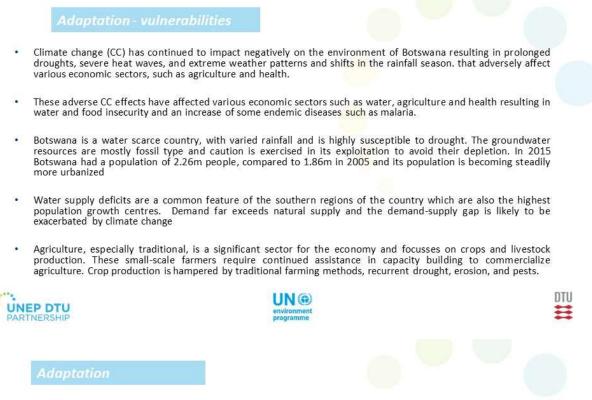
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Presentation 4:

Sector Prioritisation

UNEP DTU Partnership & Sector Experts





Predetermined sectors from the GCF Readiness Process:

Agriculture & Water

Policy Alignment:

- This sectoral and technology prioritization exercise will be informed adaptation prioritized in the **Botswana NDC** (2015), **Vision 2036** and the **Government's Climate smart agriculture** project (2015-2025).
- Botswana is developing a National Adaptation Plan (NAP) and Action Plan which will highlight all the priority areas including Climate Smart Agriculture and actions within the water sector.
- Botswana's Third National Communication to the UNFCCC (2019) identifies several factors that create barriers within the market that affects climate investment. Specific sectoral barriers are "lack of knowledge of water demand management".





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Proposed Adaptation Working Group Members

Water

- Ministry of Land Management, Water and Sanitation Services (MLMWSS)
- BITRI Water
- BIUST
- University of Botswana
- Dept. of Water Affairs
- Water Utilities Company (WUC)
- Ground Water Services Providers Body
- Private Laboratories (water quality assessments)
- Botswana Bureau of Standards
- Consumers Association



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Agriculture

- Ministry of Agricultural Development and Food Security
- Animal Production

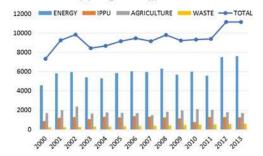
Others?

- Crop Production
- BUAN
- National Agriculture Research and Development Institute NARDI
- BITRI
 Botswana Horticulture Council (BoHoC)
- Botswana Farmers Association (BOFA) to cover small scale farmers for both livestock and crops
- Pandamatenga Commercial Farmers Association

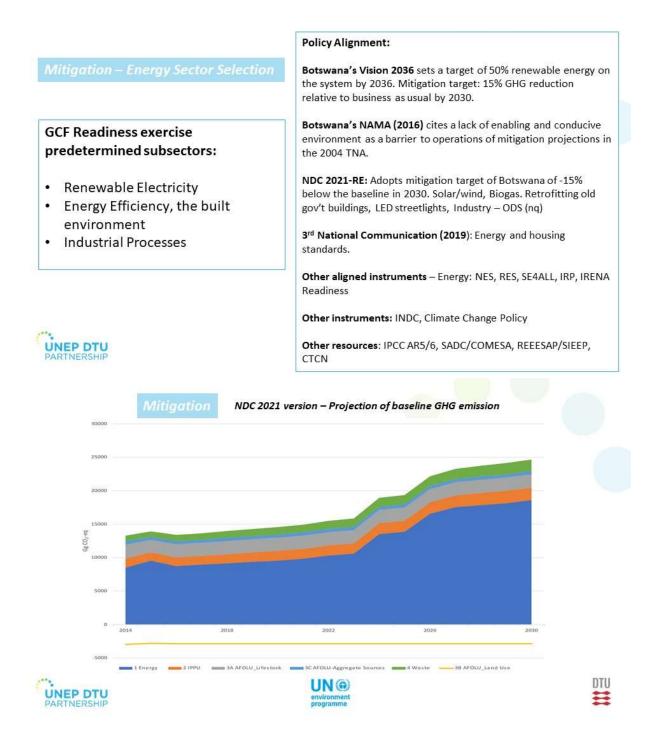


Mitigation – GHG emissions

- The energy sector accounts for over 60% of the country's GHG emissions and this project will enable Botswana to progress along its low emission pathway. (GCF Readiness Proposal)
- Access to electricity is mainly through on-grid connections, covering 59% of households in 2016, up from 46% in 2012. Under current trends, grid connections are expected to reach 71% of households by 2030. The greenhouse gas emission trends by Sector (2000 to 2013) below represents energy, agriculture and industrial processes and products use (IPPU) as the most demanding sectors. The 2010 inventory represented a 105% increase in emissions from 1990-2010 (from 3047 to 8307 kt CO2eq (= GgCO2eq)).







Mitigation – Next Steps

- The next process will be to select two subsectors and 8-12 technologies for which technology prioritization will be conducted and eventually barrier analysis and the Technology Action Plan.
- To date a working group has been identified and approached that will be facilitated by the sector expert to prioritize the energy subsectors and the technologies themselves.





Proposed Energy Working Group Members

- · BB private sector Industry energy efficiency
- BOBS Public sector EE and RE appliance/equipment Standards
- Solar Association private sector RE
- · BIUST Academic Research RE and energy audits
- BITRI Technology, Research and Innovation- RE
- BERA RE/EE regulation including tariff regime
- BPC Utility (RE power plants, EE- Transmission and Distribution losses)
- DOE Policy and implementation-better RE/EE section
- Dept of Infrastructure development (former DBES) EE in buildings







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PARTICIPANTS LIST

TNA Steering committee member
TNA project team

	Institution	Full Name	
1	Agriculture Expert	Mr. Elenimo B. Khonga	
2	Botswana Bureau of Standards	Mr. Kago Setiko	
3	Botswana Climate Change Network	Mr. Tony Gentle Sebolai	
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27	Ministry of Agriculture	Mr. Lame Ntebang	
28	Ministry of Agriculture and Food Security	Mr. Kgotso Oteng	
29	Ministry of Nationality, Immigration and Gender	Ms. Phemelo Maiketso	
30	Private Sector Company	Mr. Douglas Machacha	
31	Solar Industries Association Botswana	Ms. Karen Gibson	
32	UNEP DTU Partnership	Ms. Lucy Gregersen	
33	UNEP DTU Partnership	Mr. Gordon A. Mackenzie	
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