

Monitoring & Evaluation (M&E) Plan and Impact Statement Form

Objective of the M&E Plan and Impact Statement:

- The M&E Plan and Impact Statement must be designed based on the Technical Assistance Response Plan and must enable the Implementer to complete the Closure Report at the end of the assistance.

Process for filling in the form:

- The Implementer must identify relevant quantitative and qualitative indicators as specified in the Closure Report. A sub-set of indicators to monitor and assess must be chosen among these.
- The Implementer may also identify other specific, measurable, achievable, relevant, and time-bound indicators suitable to monitor Activities, Outputs and anticipated Outcomes from the technical assistance and add to the M&E Plan and Impact Statement.
- During implementation of the TA or FTA, the Implementer must collect all relevant data as described in the Monitoring & Evaluation Plan. Aggregated data on selected indicators as well as an updated version of the Impact Statement will be presented in the Closure Report at the end of the assistance.

Basic Information	
Title of response plan	National framework for leapfrogging to Energy Efficient Appliances and Equipment in Botswana (Refrigerators and Distribution Transformers) through regulatory and financing mechanism
Technical assistance reference number	2019000042
Country/ countries	Botswana
NDE focal point and organisation	Ms. Penny Lesolle, Researcher, Botswana Institute for Technology Research and Innovation
Sector(s) addressed	Energy Efficiency
Technologies supported	Refrigerators & Distribution Transformers
Implementation period and total duration	January 2021 – June 2022 (18 months)
Total budget for implementation	USD 266,250
Designer of the response plan	UNEP – The Climate Technology Centre and Network (CTCN)
Implementer of response plan	CLASP / Green Issues Botswana

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
Output: Completion of technical assistance	<ul style="list-style-type: none"> Quantity in Metric Tonnes of CO₂e emissions reduced or avoided as a result of CTCN TA Increased uptake of more efficient refrigerators and DTs Anticipated number of mitigation beneficiaries as a result of CTCN TA 	<ul style="list-style-type: none"> Estimated metric tons of CO₂e emissions reduced or avoided under the project (direct and indirect) larger numbers of more efficient Refrigerators and Distribution Transformers (DTs) Estimated number of mitigation beneficiaries under the project 	<ul style="list-style-type: none"> Market assessment including economic and financial analysis Confirm status of implementation of activities (i.e. MEPS, financing mechanisms, etc.) – interview with NDE, NDA, MOE, BOBS, once a year up to 3 years after the end of the TA 	<ul style="list-style-type: none"> The estimated amounts will be confirmed once market assessment, the policy recommendations and financing mechanisms are in place
Output 1: Detailed market analysis for higher efficiency refrigerators and DTs is conducted	<ul style="list-style-type: none"> Number of climate technology solutions identified and prioritised in accordance with national strategies and plans 	<ul style="list-style-type: none"> 2 appropriate climate technology solutions are identified and prioritised in accordance with national strategies and plans, based on a comprehensive analysis of technology options to address specific climate impacts. 	<ul style="list-style-type: none"> Interim and final draft market assessment reports submitted to NDA 	Methodology to be consistent with U4E and CTCN guidelines
Activity 1: Conduct detailed market assessment for Refrigerators and DTs)	<ul style="list-style-type: none"> Number of comprehensive market assessment report endorsed by NDE / NDA / MOE Number of household surveys. 	<ul style="list-style-type: none"> Submission of 1 comprehensive market assessment report endorsed by the NDE / NDA / MOE A minimum of 50-100 household surveys (Feb-Mar) 	<ul style="list-style-type: none"> Discussions with stakeholders Questionnaires market assessment report-April Minutes of PWG meetings discussing the market assessment 	<ul style="list-style-type: none"> Government support in collecting data from the households may delay the process It might be challenging to obtain a lot of results from

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	<ul style="list-style-type: none"> Number of questionnaires sent to different stakeholders Completeness of the report, including market trends, policy and regulatory framework and status, quantitative energy and CO₂e savings estimates 	<ul style="list-style-type: none"> A minimum of 20 questionnaires to stakeholders of supply chain with additional questionnaires with other stakeholders, such as policy makers, utilities, Standard body etc. (Feb-Mar) The market assessment informs the PWG and Technical committee in determining appropriate MEPS level other measures. 		households surveys due to the COVID 19 situation
Output 2: The Policy Working Group 9PWG) for the design and future implementation of the national policy roadmaps for the promotion of higher efficiency refrigerators and DTs formed and effective, comprising key stakeholders	<ul style="list-style-type: none"> All strategic stakeholders are included in the PWG, endorsed by the NDA 	<ul style="list-style-type: none"> Stakeholders (governments, private sector, associations, civil society, academia and others) are engaged in a consultative processes of forming the PWG ToRs are written and agreed upon for the Policy working group by the stakeholders. Market assessment report is reviewed by the PWG 	<ul style="list-style-type: none"> Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents Minutes of PWG meetings 	<ul style="list-style-type: none"> Due to the COVID 19 situation, PWG meetings will be held virtually
Activity 2.1: Formation and Kickoff of Policy	<ul style="list-style-type: none"> Establishment of Policy Working Group 	<ul style="list-style-type: none"> ToRs are written and agreed upon by stakeholders 	<ul style="list-style-type: none"> List of PWG members TOR of PWG (June) 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
Working Group with strategic stakeholders		<ul style="list-style-type: none"> • Policy Working Group established • Review of the market assessment report. 		
Activity 2.2: PWG meetings and Resolutions.	<ul style="list-style-type: none"> • Number of quarterly meetings of the PWG • Number of national policy roadmaps informed by the PWG 	<ul style="list-style-type: none"> • 4 quarterly meetings of the PWG • 2 national policy roadmaps are considered as informed by the PWG 	<ul style="list-style-type: none"> • Minutes of meetings - quarterly 	Virtual, in person or blended depending on the COVID situation
Output 3.1: Technical committee provides a forum for adoption of a national standard on characteristics and test methods for refrigerators	<ul style="list-style-type: none"> • Establishment and implementation of a process for periodic participatory review and updating through the TC-Ref 	<ul style="list-style-type: none"> • Process for periodic participatory review and updating through the TC-Ref is established and being implemented. 	<ul style="list-style-type: none"> • Discussions with stakeholders • Consultation of beneficiaries • Finalizing materials and producing working documents 	
Activity 3.1.1: Formation of refrigerators technical committee (TC -Ref) with strategic stakeholders	<ul style="list-style-type: none"> • Establishment of TC-Ref 	<ul style="list-style-type: none"> • 1 TC-Ref established • ToRs for TC are written and agreed upon. 	<ul style="list-style-type: none"> • List of TC-Ref members • TOR of TC-Ref members • Minutes of meetings 	
Activity 3.1.2: Organize three (3) meetings of the TC-Ref with support from technical expert	<ul style="list-style-type: none"> • Number of meetings of the TC-Ref • Review of international standard by the TC-Ref resulting in selection of a 	<ul style="list-style-type: none"> • 3 meetings of the TC-Ref held • 1 national testing standard for refrigerators selected after detailed review process 	<ul style="list-style-type: none"> • Draft standards presented • Minutes of meetings (quarterly) • TC reports 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
	number of national testing standards. <ul style="list-style-type: none"> Development, Review and finalization of draft standards based on TC inputs. 			
Activity 3.1.3: Organize national stakeholder consultation on the recommended draft national standard for refrigerators.	<ul style="list-style-type: none"> Organization of national stakeholder consultation on the recommended draft national standard for refrigerators as agreed by the NDE and TC-Ref 	<ul style="list-style-type: none"> 1 public consultation organized 	<ul style="list-style-type: none"> National consultation workshop Workshop report List of attendees including participants showing their gender, institutions they work for 	<ul style="list-style-type: none"> COVID 19 restrictions may affect the effective national consultative workshop
Activity 3.1.4: National standard for refrigerator is endorsed by the TC	<ul style="list-style-type: none"> Review of recommended draft national standard for refrigerators Endorsement of the national standard for refrigerators Official publication of the endorsed national standard for refrigerators 	<ul style="list-style-type: none"> 1 Draft national standard for refrigerators is revised addressing inputs and comments from the public consultation 1 national standard for refrigerators endorsed by the TC and transmitted for approval and official publication 1 official publication of the endorsed national standard for refrigerators 	<ul style="list-style-type: none"> Finalizing materials and producing working documents Meeting of the TC-Ref held to endorse the national standard for refrigerators Minutes of meeting Copy of official publication 	
Output 3.2: Technical committee provides forum for effective Adoption of a national	<ul style="list-style-type: none"> Establishment and implementation of a process for periodic 	<ul style="list-style-type: none"> 1 process for periodic participatory review and updating through the TC-DT. TC standard is established 	<ul style="list-style-type: none"> Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents 	-

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
standard on characteristics and test methods for Distribution Transformers	participatory review and updating through the TC-DT			
Activity 3.2.1: Formation of distribution transformers Technical Committee (TC-DT) with strategic stakeholders	<ul style="list-style-type: none"> Establishment of TC-DT 	<ul style="list-style-type: none"> 1 TC-DT established 	<ul style="list-style-type: none"> List of TC-DT members TOR of TC-DT members Minutes of meetings 	
Activity 3.2.2: Organize three (3) meetings of the TC-DT with support from technical expert.	<ul style="list-style-type: none"> Number of meetings of the TC-DT Review of international standard by the TC-Ref resulting in selection of a number of national testing standards. Development, Review and finalization of draft standards based on TC inputs. 	<ul style="list-style-type: none"> 3 meetings of the TC-DT held 1 national testing standard for DTs selected after detailed review process 	<ul style="list-style-type: none"> Draft standards presented Minutes of meetings (quarterly) TC reports 	
Activity 3.2.3: Organize national stakeholder consultation on the	<ul style="list-style-type: none"> Organization of national stakeholder consultation on the recommended draft 	<ul style="list-style-type: none"> 1 public consultation organized 	<ul style="list-style-type: none"> Initial draft tabled National consultation workshop Workshop report 	<ul style="list-style-type: none"> COVID 19 restrictions may affect the effective national

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recommended draft national standard for DTs	national standard for refrigerators as agreed by the NDE and TC-DT		<ul style="list-style-type: none"> List of attendees including participants showing their gender, institutions they work for 	consultative workshop
Activity 3.2.4: National standard for DTs is endorsed by the TC in a TC meeting.	<ul style="list-style-type: none"> Review of recommended draft national standard for DTs by TC Endorsement of the national standard for DTs Official publication of the endorsed national standard for DTs 	<ul style="list-style-type: none"> 1 draft national standard for DTs is revised addressing inputs and comments from the public consultation 1 national standard for DTs endorsed by the TC-DT and transmitted for approval and official publication 1 official publication of the endorsed national standard for DTs 	<ul style="list-style-type: none"> Finalizing materials and producing working documents Meeting of the TC-DT held to endorse the national standard for DTs Minutes of meeting Copy of official publication 	
Output 4.1: The national policy roadmap for the promotion of higher efficiency refrigerators, including MEPS-HEPS, labelling scheme, consumer awareness, capacity building for custom officials, and MV&E framework) is developed and	<ul style="list-style-type: none"> Development and adoption of a comprehensive national policy roadmap for refrigerators by the government 	<ul style="list-style-type: none"> A comprehensive strategy has been developed and adopted by the government to catalyze investment in the deployment and scale-up of prioritized climate technology solution, including market preparation and business planning. 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents Minutes of meeting 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
adopted, and training done for primary implementers				
Activity 4.1.1: Develop minimum energy performance standards (MEPS) and highest energy performance standards (HEPS) for refrigerators	<ul style="list-style-type: none"> • Draft MEPS and HEPS is developed and ready for public consultation. 	<ul style="list-style-type: none"> • MEPS and HEPS levels, as well as schedule for increase are defined to help determine supporting policy measures 	<ul style="list-style-type: none"> • Draft MEPS for consideration by PWG • Minutes of PWG meeting • Training to the PWG 	
Activity 4.1.2: Review labeling options for refrigerators leading to development of draft labeling scheme for public consultation.	<ul style="list-style-type: none"> • Training on labelling options. • Number of participants trained • Draft labelling scheme is developed 	<ul style="list-style-type: none"> • 1 training on labelling options • X participants trained¹ • Labelling scheme and supporting policy measures to promote label are defined 	<ul style="list-style-type: none"> • Initial proposed labels tabled • Minutes of PWG meetings • Proceedings of the training workshop 	
Activity 4.1.3 Review on international experience in consumer awareness campaigns for higher efficiency refrigerators.	<ul style="list-style-type: none"> • Awareness campaign options are identified. 	<ul style="list-style-type: none"> • Research results and recommendations are presented to the PWG • Awareness campaign options are identified as a result of research conducted. 	<ul style="list-style-type: none"> • Initial recommendations tabled • Minutes of PWG meetings 	
Activity 4.1.4: Design a national consumer awareness campaign plan for refrigerators	<ul style="list-style-type: none"> • Draft a national consumer awareness campaign. • Provision of an action plan for the government to 	<ul style="list-style-type: none"> • 1 national consumer awareness campaign designed • 1 action plan for the government to implement 	<ul style="list-style-type: none"> • Minutes of PWG meetings. • Draft Plan. 	

¹ The number of participants to be determined in coordination with the PWG

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
	implement national consumer awareness campaign once the MEPS regulation is adopted	national consumer awareness campaign once the MEPS regulation is adopted provided		
Activity 4.1.5: Organize National consultation on the recommended national policy roadmap (including recommended levels of MEPS and HEPS, labeling scheme, and consumer awareness campaign) for refrigerators.	<ul style="list-style-type: none"> • Organization of public consultation on the recommended draft national policy roadmap for refrigerators • Review of the recommended draft national policy roadmap for refrigerators. • Public Consultation workshop is conducted 	<ul style="list-style-type: none"> • Draft national consultation road map is presented to the PWG to get their inputs • 1 public consultation organized • 1 recommended draft national policy roadmap for refrigerators revised addressing inputs and comments from the public consultation. 	<ul style="list-style-type: none"> • National consultation workshop • Consultation report including participants showing their gender, institutions they work for • Finalizing materials and producing working documents 	<ul style="list-style-type: none"> • COVID 19 restrictions may affect the effective national consultative workshop
Activity 4.1.6: Finalization of the national policy roadmap for refrigerators by the PWG.	<ul style="list-style-type: none"> • Finalization of the national policy roadmap for refrigerators incorporating outcomes of the public consultation. • Provision of action plans for the government for the implementation of supporting policy measures for the promotion of higher efficiency refrigerators 	<ul style="list-style-type: none"> • 1 national policy roadmap for refrigerators finalized • Action plans for the government for the implementation of supporting policy measures for the promotion of higher efficiency refrigerators provided 	<ul style="list-style-type: none"> • Finalizing materials and producing working documents • Minutes of Meetings of PWG • Official announcement by the government 	
Activity 4.1.7: Development of	<ul style="list-style-type: none"> • Development of national MV&E plan for refrigerators 	<ul style="list-style-type: none"> • 1 national MV&E plan for refrigerators developed 	<ul style="list-style-type: none"> • National MV&E report 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
national MV&E plan for refrigerators	<ul style="list-style-type: none"> for inclusion in the roadmap. Provision of an action plan to establish MV&E framework and processes to the government 	<ul style="list-style-type: none"> Action plan to establish MV&E framework and processes provided to the government 		
Activity 4.1.8: Development of a training curriculum and materials on MEPS for refrigerators for custom officials.	<ul style="list-style-type: none"> Design of training curriculum and training materials on MEPS for refrigerators for custom officials and retail market inspectors Endorsement of training curriculum by PWG 	<ul style="list-style-type: none"> Training need analysis is conducted among custom officials. 1 training curriculum and training materials on MEPS for refrigerators for custom officials and retail market inspectors is designed. 	<ul style="list-style-type: none"> Training needs report Minutes of PWG meeting Finalizing materials and producing working documents 	
Activity 4.1.9: Organize training of trainers	<ul style="list-style-type: none"> Training to build capacity of local trainers for nationwide training of custom officials Number of local trainers trained on MEPS for refrigerators. 	<ul style="list-style-type: none"> 1 training of trainers workshop on MEPS for refrigerators held At least 15 local trainers trained on MEPS for refrigerators 	<ul style="list-style-type: none"> Proceedings of the training workshop Training evaluation report List of participants showing their gender, institutions they work for 	<ul style="list-style-type: none"> COVID 19 restrictions may affect the effective training of trainers
Output 4.2: The national policy roadmap for the promotion of higher efficiency DTs, including MEPS-HEPS, end-users	<ul style="list-style-type: none"> Development and adoption of a comprehensive national policy roadmap for DTs by the implementers. 	<ul style="list-style-type: none"> National policy roadmap for DTs adopted by the government A comprehensive strategy has been developed and is being implemented to catalyze 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents Minutes of meeting 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
education, capacity building on TCO, and MV&E framework) developed and adopted and training done for the implementers.		investment in the deployment and scale-up of prioritized climate technology solution, including market preparation and business planning		
Activity 4.2.1: National DT roadmap encompassing MEPS, HEPS, MV&E Developed and adopted, and training done for primary implementers	<ul style="list-style-type: none"> • MEPS and HEPS levels is defined. 	<ul style="list-style-type: none"> • 1 MEPS and HEPS levels, as well as schedule for increase is defined to help determine supporting policy measures. 	<ul style="list-style-type: none"> • Minutes of PWG meetings • Draft MEPS/HEPS 	
Activity 4.2.2: conduct Training of DT procurement officers on Total Cost of Ownership (TCO)	<ul style="list-style-type: none"> • Number of training workshop for procurement officers on TCO • Number of participants trained 	<ul style="list-style-type: none"> • 1 training workshop for procurement officers on TCO held to build capacity of procurement officers on TCO • X participants trained² 	<ul style="list-style-type: none"> • Proceedings of the training workshop • Training evaluation report • List of participants showing their gender, institutions they work for 	<ul style="list-style-type: none"> • COVID 19 restrictions may affect the training workshop
Activity 4.2.3: Organize National consultation on the recommended national policy roadmap (including recommended levels of MEPS and HEPS)	<ul style="list-style-type: none"> • National consultative workshop is conducted. • Review of the recommended draft national policy roadmap for DTs. 	<ul style="list-style-type: none"> • Draft National policy roadmap for DTs is presented to the PWG for their inputs • 1 public consultation organized • 1 recommended draft national policy roadmap for DTs is revised addressing inputs and 	<ul style="list-style-type: none"> • National consultation workshop • Consultation report including participants showing their gender, institutions they work for • Finalizing materials and producing working documents 	<ul style="list-style-type: none"> • COVID 19 restrictions may affect the national consultative workshop

² The number of participants to be determined during market assessment (Activity 1)

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
		comments from the public consultation		
Activity 4.2.4: Finalization of the national policy roadmap by the PWG for DTs	<ul style="list-style-type: none"> Finalization of the national policy roadmap for DTs Provision of action plans for the government for the implementation of supporting policy measures for the promotion of higher efficiency DTs 	<ul style="list-style-type: none"> 1 national policy roadmap for DTs finalized Action plans for the government for the implementation of supporting policy measures for the promotion of higher efficiency DTs provided 	<ul style="list-style-type: none"> Finalizing materials and producing working documents Minutes of Meetings of PWG Official announcement by the government 	
Activity 4.2.5: Development of national MV&E plan for DTs	<ul style="list-style-type: none"> Development of national MV&E plan for DTs Provision of an action plan to establish MV&E framework and processes for DTs to the government 	<ul style="list-style-type: none"> Draft MV&E plan for DTs is presented to the PWG for discussion. 1 national MV&E plan for DTs is developed Action plan to establish MV&E framework and processes provided to the government 	<ul style="list-style-type: none"> National MV&E report 	
Output 5.1: Financing mechanisms and options identified and developed for the promotion of higher efficiency refrigerators	<ul style="list-style-type: none"> Identification of policy recommendations on financing mechanisms 	<ul style="list-style-type: none"> 1 climate finance strategy identified to define efforts to access a range of financing instruments for prioritized climate action. 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents 	
Activity 5.1.1: Review and analysis of international experience and national	<ul style="list-style-type: none"> Technical reports and information material on possible finance mechanism for refrigerators. 	<ul style="list-style-type: none"> 1 Report on financial mechanisms and strategies for refrigerators 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
condition, and preparing recommendations in terms of finance mechanisms for refrigerators.			<ul style="list-style-type: none"> Finalizing materials and producing working documents 	
Activity 5.1.2: Organize capacity building workshop on finance mechanisms and options for refrigerators	<ul style="list-style-type: none"> Number of training sessions and capacity strengthening activities Number of participants are trained 	<ul style="list-style-type: none"> Development of training materials. 1 training workshop on financial mechanisms and strategies for refrigerators is held Number of participants are trained 	<ul style="list-style-type: none"> Training materials Training report List of participants showing their gender, institutions they work for 	<ul style="list-style-type: none"> COVID 19 restrictions may affect the effective workshop
Activity 5.1.3: Development of implementation plan for agreed finance mechanism for refrigerators.	<ul style="list-style-type: none"> Detailed recommendations and implementation plan for selected financial mechanisms and strategies for refrigerators 	<ul style="list-style-type: none"> Discussions and consultations with stakeholders and beneficiaries. 1 Detailed implementation plan for selected financial mechanisms and strategies for refrigerators 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents 	
Output 5.2: Financing mechanisms and options identified and developed for the promotion of higher efficiency DTs	<ul style="list-style-type: none"> Identification of financing mechanisms and options for the promotion of higher efficiency DTs 	<ul style="list-style-type: none"> 1 climate finance strategy identified to define efforts to access a range of financing instruments for prioritized climate action. 	<ul style="list-style-type: none"> Desk study Discussions with stakeholders Consultation of beneficiaries Finalizing materials and producing working documents 	Proper identification of stakeholders especially in the mini-grid space

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
Activity 5.2.1: Review and analysis of international experience and national conditions, and preparing recommendations in terms of finance mechanisms for DTs	<ul style="list-style-type: none"> • Technical reports and information material on possible finance mechanism for DTs 	<ul style="list-style-type: none"> • 1 Report on financial mechanisms and strategies for DTs 	<ul style="list-style-type: none"> • Desk study • Discussions with stakeholders • Consultation of beneficiaries • Finalizing materials and producing working documents 	
Activity 5.2.2: Organize capacity building workshop on finance mechanisms and options for DTs	<ul style="list-style-type: none"> • Number of training sessions and capacity strengthening activities. • Number of participants trained 	<ul style="list-style-type: none"> • Development of training materials. • 1 training workshop on financial mechanisms and strategies for DTs is held. • Number of participants are trained 	<ul style="list-style-type: none"> • Training materials • Training reports • List of participants showing their gender, institutions they work for 	<ul style="list-style-type: none"> • COVID 19 restrictions may affect the effective workshop
Activity 5.2.3: Development of implementation plan for agreed finance mechanism for DTs.	<ul style="list-style-type: none"> • Detailed recommendations and implementation plan for selected financial mechanisms and strategies for DTs 	<ul style="list-style-type: none"> • Discussions and consultation with stakeholders and beneficiaries. • 1 Detailed implementation plan for selected financial mechanisms and strategies for DTs 	<ul style="list-style-type: none"> • Desk study • Discussions with stakeholders • Consultation of beneficiaries • Finalizing materials and producing working documents 	
Output 6: Effective coordination between NDE, NDA and other climate focal points for	<ul style="list-style-type: none"> • Establishment of effective coordination between NDE, NDA, MOE, and other climate focal points 	<ul style="list-style-type: none"> • 1 effective coordination between NDA, NDE, MOE, and other climate focal points established 	<ul style="list-style-type: none"> • Discussions with stakeholders • Consultation of beneficiaries; 	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(E) Comments
the implementation of the project and for future GCF projects		<ul style="list-style-type: none"> Preparing a Monitoring plan and quarterly reports. 	<ul style="list-style-type: none"> List of focal points from NDE, NDA, MOE, and other key institutions 	

Note: The Response Plan may contain information useful for the section below. The information in the table below will be used by the CTCN for public communication of the achieved and expected results of the Technical Assistance through the CTCN website www.ctc-n.org and other communication channels. See for example: https://www.ctc-n.org/sites/www.ctc-n.org/files/benin_ag_forestry.final_.pdf

Impact Statement	
Challenge	Refrigerators demand will significantly increase in Botswana with economic development, contributing to baseload, and from the consumer side, a significant share of household incomes. On the other hand, Distribution transformers (DTs) are typically responsible for 30% of distribution losses. In this regard it's critical to address lack of dedicated policies for energy efficient products and appliances including absence of minimum energy performance standards, and lack of information and awareness on the importance of efficient appliance. This will induce a sustainable market transformation in favor of higher efficient products therefore reducing huge electricity losses which brings a heavy burden on the government's budget and hampers the country's electrification potential.
CTCN assistance	<ul style="list-style-type: none"> • Development of Mandatory Minimum energy performance standards and labeling schemes for refrigerators and distribution transformers • Provide support in development of National policy roadmap and enabling environment for implementation of standards and label for refrigerators and distribution transformers • Development of appropriate financing mechanisms to accelerate deployment of energy efficient refrigerators and distribution transformers. • Strengthening national capacity to be able to later develop standards and labels for other appliances in future.
Anticipated impact	Key outcomes produced within the project will strengthen the existing policies and regulatory frameworks through <ol style="list-style-type: none"> 1. The adoption of national testing standards for refrigerators and DTs, 2. The adoption of mandatory Minimum Energy Performance Standards (MEPS), as well as adoption of High Energy Performance Standards (HEPS) 3. Labelling scheme 4. The design of consumer awareness campaigns 5. Capacity building on finance mechanisms.
Anticipated co-benefits from the TA	This readiness proposal will result in Botswana having a regulatory framework and an agreed MEPS and labelling scheme for Refrigerators and Distribution transformers. This will result in reduced electricity losses and strain on the grid, therefore increasing the ability to extend electricity access more so in rural areas. In addition the regulations will reduce household's electricity bills and potentially reduce GHS emissions.
Gender aspects of the TA	The project will pursue thorough and gender responsive integration and ensure stakeholder involvement at all levels. Regulatory framework and financial mechanism will be designed based on a gender-differentiated understanding of opportunities, gender consideration related to refrigerators and DTs, and constraints to optimize their social and climate impact.
Anticipated contribution to NDC	The INDC document which Botswana submitted in 2015 to UNFCCC contains Botswana's commitment to reduce GHG emissions and hence combat climate change. Botswana intends to reduce overall emissions by 15% from the base year of 2010 by 2030. Amongst Botswana's prioritized sectors include the energy sector.
The narrative story	The electrification rate in Botswana is nearly 65%, with 81% of urban population having access to electricity (2018, World Bank). Botswana's

	<p>electricity sector is largely dependent on generation by thermal coal power plants, and electricity imports. The Government of Botswana aims to achieve 100% electrification rate by 2030, which will put a strain on electricity grid and the supply. Energy efficiency can help mitigate the future growth in demand and reduce burden on the grid and the government's budget as it subsidizes the electricity. Adoption of energy efficiency policies for appliances and electricity-using equipment can significantly reduce electricity use and losses and support country's electrification.</p> <p>In this context, Botswana requested support from CTCN through UNEP to implement a GCF Readiness proposal that aims to develop a national framework for leapfrogging to energy-efficient refrigerators and distribution transformers through regulatory and financing mechanism. CTCN assistance will result in Botswana having:</p> <ul style="list-style-type: none"> • Mandatory Minimum Energy Performance Standards (MEPS), High Energy Performance Standards (HEPS), and labeling schemes for refrigerators and distribution transformers • National policy roadmap and enabling environment for implementation of standards and label for refrigerators and distribution transformers • Appropriate financing mechanisms to accelerate deployment of energy efficient refrigerators and distribution transformers. • Strengthened national capacity to develop standards and labels for other appliances in future. <p>This will create an enabling policy and regulatory environment for appliance thus leading to market transformation. Consequently, the appliance market transformation will reduce strain on the electricity grid therefore increasing the ability to extend the electricity grid to other areas.</p>
Contribution to SDGs	<ul style="list-style-type: none"> • SDG 1: End poverty in all its forms everywhere: Energy efficiency is a major contributor in the reduction of fuel poverty. • SDG 7: Ensure access to affordable reliable, sustainable and modern energy for all: By 2030, double the global rate of improvement in energy efficiency: Energy efficiency will be improved in the buildings sector through energy efficient appliances. • SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation: The standard and labelling programmes will promote product innovation among local manufacturers to improve the performance and sustainability of refrigerators and DTs. • SDG 13: Take urgent action to combat climate change and its impacts: Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries. The long-term impact of reduced electricity consumption mitigates dependency on climate sensitive electricity. Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning: Future awareness raising, in accordance with the strategy developed in this TA, informs consumers and manufacturers about the benefits of energy efficient appliances.
Reference to knowledge products	<p>Tools and resources from other initiatives such as United for Efficiency (U4E) initiative, Montreal protocol, Kigali Cooling Efficiency programme and Stockholm convention (for PCBs in transformers), will be used as a starting point for development of the policy framework at the national level. This includes: adapting the U4E Model Regulations for refrigerators and for distribution transformers to national specificities, and using the U4E policy</p>

	guides and other tools for capacity building and guidance to develop amongst others the national policy roadmap.
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