Technical Assistance Closure Report Template

Objective of the technical assistance (TA) Closure Report:

- To communicate publicly in one document a summary of progress made and lessons learned during the TA towards the anticipated impact (sections 1-4).
- To document qualitative and quantitative data collected during TA, for use in donor and UN reporting (Annex 1).

Steps for completing the TA Closure report:

1. The lead TA implementer submits the closure report at the end of the technical assistance as a final deliverable. The TA closure report will capture outputs, outcomes and impacts of all activities conducted under the TA. Please copy and summarise relevant material from previous TA outputs/deliverables and the Response Plan, as relevant.
2. A CTCN Manager will review and revise the closure report before final approval by the CTCN Deputy Director.

Important note on public and internal use of the closure report:
Once approved by the CTCN Deputy Director, the TA closure report will be a public document available on the CTCN website www.ctc-n.org. Selected content will be used for targeted communication activities. Annex 2 is for internal use only and will not be publicly available.

Closure Report for CTCN Technical Assistance

1. Basic information

Title of response plan	Developing a National Framework for deploying and scaling up E-Mobility (EM) in Tanzania
Technical assistance reference number	2021000054
Country / countries	Tanzania
NDE focal point and organisation	Dr. Gerald Majella Kafuku, Acting Director, Centre for Development and Transfer of Technology Tanzania Commission for Science and Technology (COSTECH)
Proponent focal point and organisation	Mr. Daniel M. Werema, Principal Economist Ministry of Works and Transport (MOWT)
Designer of the response plan	Mr. Valentin Rudloff Climate Technology Specialist Climate Technology Centre & Network (CTCN) UN Climate Change Technology Mechanism
Implementer(s) of technical assistance	Siemens AG Innovex DC
Beneficiaries	Centre for Development and Transfer of Technology Tanzania Commission for Science and Technology (COSTECH)
Sector(s) addressed	Transport (Land Transport, Vehicle and fuel technologies)

Technologies supported	Electric vehicles
Implementation period and total duration in months	20/06/2023 – 30/08/2024
Total budget for implementation	USD 223,487.50
Description of delivered outputs and products as well as the activities undertaken to achieve them. In doing so, review the log frame of the original response plan and refer to it as appropriate	Inception Report Project Implementation Plan Market Assessment Report On-site Workshop Mission Report EV Policy Framework Policy Working Group Meeting Protocol 1 Policy Working Group Meeting Protocol 2 EV Implementation Framework GCF Concept Note Communication Strategy Capacity Building Material Project Closure Workshop Protocol
Methodologies applied to produce outputs and products	Siemens Electric Vehicle Framework, Siemens EV Ecosystem Readiness Index (SEERI), benchmarking, gap analysis, financial modelling, cost-benefit analysis, literature research, group discussions
Deviations	Project closure workshop was held virtually due to logistically issues
Anticipated follow-up activities and next steps	Follow-Up initiatives on emobility in Tanzania: *Elico foundation initiative on electric 3-wheelers *ENABEL – Belgium Development Agency

2. Lessons learned

	Lessons learned	**Recommendations**
Lessons learned from the CTCN TA process	Logistics of on-site workshops requires consideration of local practices	Early detailed consideration of logistic support for on-site workshops is recommended
Lessons learned related to climate technology transfer		Emobility implementation must start on the highest level balancing emission targets with realistic economic and technological capabilities

3. Illustration of the TA and photos

For communication purposes, please provide 2-4 Power Point slides, including illustrations or charts, describing barriers, opportunities, methodology, activities, outputs and achieved results. The illustrations must be copied into the TA Closure report but must also be delivered as power point files. Also, please provide at least five high-resolution pictures in jpg format, capturing technical assistance. The pictures should illustrate how the TA has impacted the lives of the beneficiaries in particular and the communities in general.

4. Impact Statement

The information in the table below will be used to communicate results and anticipated impacts of this technical assistance publicly. Please copy information from impact statement developed in the M&E Plan and update as relevant.

Challenge	*Approx. 500 characters with spaces*
CTCN Assistance	• Preparation of response plan; • Review of project documents;
Anticipated impact	GHG emissions from energy and mobility account for the largest share of national emissions in Tanzania. Significant future growth is forecasted as the demand for vehicles and transport services increases with economic growth, particularly for passenger cars. The intended contribution of this technical assistance is to: • Create an effective policy and market transformation environment for deployment and uptake of EVs; • Address the legal and regulatory barriers for the adoption of electric vehicles, charging infrastructure, and linked business models; • Provide affordable and low emission transport; • Reduce rising levels of CO2 and SO2, and particulate matter in ambient air, • Contribute to achieving the country's NDCs and the Paris Agreement objectives;
Co-benefits: Achieved or anticipated co-benefits from the TA	• Advocate for equity in all policy development and implementation; • Support interventions aimed at increased participation of vulnerable groups in the deployment of E-Mobility: • Develop and implement methods to monitor the increase of opportunities for employment for the female employable popula-tion; • Support initiatives for training and skills development to achieve objectives of women's economic empowerment especially in capacity building workshops on E-Mobility;
Gender aspects of the TA	Based on the above interventions to prioritize co-benefits, the

	following results are expected from the technical assistance: • Gender sensitive National EV Policy that increases opportunities for women involvement and employment; • Enhanced skills of women in the area of E-Mobility through capacity building interventions • Increased suitability of public transport offerings for all gender
Anticipated contribution to NDC	• 2 In alignment with the Tanzania's NDC of 2015 and 2021 • In alignment with Tanzania's National Transport Policy 2003 • In alignment with Tanzania's National Energy Policy 2015
The narrative story	Transportation plays a crucial role in Tanzania's economy, but past decades have seen inadequate investments in infrastructure and vehicle fleet upgrades. The predominant mode is road transport, mainly using fossil fuel-powered vehicles, contributing to greenhouse gas emissions and air pollution. Tanzania's updated Nationally Determined Contributions prioritize energy and transportation for mitigation. The national transport policy emphasizes efficient, cost-effective, and environmentally friendly transport services. E-Mobility is recognized as a solution, aligning with Tanzania's ambitions for green growth, reduced energy imports, and job creation. Despite existing policies supporting renewable energy (RE) technologies, specific initiatives for E-Mobility are lacking. Challenges include a lack of market analysis for electric vehicles (EVs), insufficient charging infrastructure, the absence of integrated plans, high upfront costs, a knowledge gap in public understanding of E-Mobility, and a lack of supporting systems such as maintenance and repair services. Addressing these challenges is crucial for successful E-Mobility integration in Tanzania's transport sector. This project aims at developing an effective national framework for deploying and scaping up E-Mobility in Tanzania.

	The project scope covers the development and adoption of national EV policies, regulations, and the delivery of awareness and capacity building activities that support market transformation through clear implementation frameworks adapted to the three (3) cities. The cities under consideration are (i) Dar es Salaam; (ii) Mwanza; and (iii) Dodoma and. These cities are chosen for their potential of fast growth as well as having large number of residents who mostly commute using road transport using commuter buses, 3- and 2-wheelers
Contribution to SDGs A complete list of SDGs and their targets is available here: https://sustainabledevelopment.un.org/partnership/register/	SDG 7 - Ensure access to affordable, reliable, sustainable, and modern energy for all (consider adding targets for 7): The anticipated out-come is a National EV Policy and accompanying Implementation Framework that presents a number of strategic, long-term, transforma-tional E-Mobility measures that will drive climate resilient and low carbon growth in Tanzania • SDG – 7 (a): The technical assistance will identify the environmentally sound technologies that will be integral to delivering on Tanzania's NDC, including required charging infrastructure. • SDG 13 - Stakeholder engagement, skills development and capacity building is central to the methodological approach of this technical assistance.

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Annex 1 Technical assistance data collection

Please add quantitative and qualitative values for the indicators selected in the M&E plan and monitored throughout the technical assistance in the tables below. Indicators which have been monitored in addition to the proposed indicators below may be added at the end of table A. Non-relevant indicators should be left blank.

A. Output and outcome indicators

Indicator Please note indicators below highlighted as **anticipated**	**Quantitative value** Value and unit	**Qualitative description** List the various elements corresponding to the quantitative value as well as timelines and responsible institutions
Number of communication and outreach activities conducted by proponents and implementing partners to showcase CTCN support	*7*	Events (titles): see mission resp. reports and slides News release: Newsletter: Articles: Presentations on the results of the TA: Social media postings: Etc.
Number of participants in the events above		
a) Number of men		32
b) Number of women		7
Number of training sessions and capacity strengthening activities		1
Number of people who received the training		
a) Number of men		24
b) Number of women		4
Total number of institutions trained	*List total number here*	15
a) Number of research organisations, laboratories and universities		2
b) Number of private companies		4
c) Number of cities and local government		2
d) Number of communities		-
e) Number of ministries		4
f) Number of specialised governmental institutions		-
g) Number of non-profit organisations		3
Percentage of participants reporting satisfaction with CTCN training (from CTCN training feedback form)		*Satisfied= 3+ on 5-pt scale* *Indicate breakdown of categories here based on the results of the CTCN training feedback forms*

Percentage of participants reporting increased knowledge, capacity and/or understanding as a result of CTCN training (from CTCN training feedback form)		*Increased knowledge, capacity and/or understanding= 3+ on 5-pt scale* *Indicate breakdown of categories here based on the results of the CTCN training feedback forms*
a) Number of men		
b) Number of women		
Total number of deliverables produced during the assistance (excluding mission, progress and internal reports)	*List total number here*	*7*
a) Number of tools and technical documents strengthened, revised or developed		*List the name of the documents*
b) Number of other information materials strengthened, revised or created (For example training and workshop reports, Power Points, exercise docs etc.)		*1*
Total number of policies, strategies, plans, laws, agreements or regulations supported by the assistance	*List total number here*	*7*
a) Adaptation related		*List the type and name of documents supported*
b) Mitigation related		*List the type and name of documents supported*
c) Both adaptation- and mitigation related		*7*
Anticipated number of policies, strategies, plans, laws, agreements or regulations proposed, adopted or implemented as a result of the TA		
a) Adaptation related		-
b) Mitigation related		-
c) Both adaptation- and mitigation related		-
Anticipated number of technologies transferred or deployed as a result of CTCN support		*2*
Number of South-South collaborations enabled during or through CTCN TA support		*List the names of the organisations (excluding the CTCN or TA implementers)*
Number of climate technology RD&D related outreach activities		
Number of participants in climate technology RD&D related workshops and events		*Disaggregate by country*
a) Number of men		*24*
b) Number of women		*4*
Anticipated number of cooperative research, development, and demonstration programmes facilitated as a result of CTCN TA		*1*
Number of countries with strengthened National System of Innovation as a result of CTCN support		*1*
Number of organisations engaged through CTCN support		*5*
Insert any additional indicators here		

B. Core impact indicators

Please fill in the tables for anticipated impacts of the CTCN assistance. Every technical assistance should contribute to at least one of the indicators below. For guidance on how to report on core indicators see the 'M&E Guidance Document for TA Implementers'.

Core indicator 1	**Anticipated metric tons of CO_2 equivalent (CO_2e) emissions reduced or avoided as a result of CTCN TA**	
	Anticipated metric tons of CO_2, equivalent emissions reduced or avoided as a result of the TA **on annual basis**	Anticipated metric tons of CO_2, equivalent emissions reduced or avoided as a result of the TA **in total**
Quantitative value		Up to 40 Mio tons CO2 in 2043
Unit		
Methodology Explain the method or process of verifying the indicator and how data was gathered		Evaluated savings of CO2 emissions by a replacement of 100% ICE vehicles through electric vehicles (considered vehicle types: 2W, 3W, passenger cars, minibuses and busses)
GHG assessment boundary Identify expected post-TA activities, associated effects and assess boundary for quantification of GHG emission reductions		Implementation of National EV Strategy is a necessary prerequisite to achieve emission savings
Baseline candidates Define alternative technologies or practises used in baseline calculation to represent possible alternatives to the project activities		
Baseline emissions Describe baseline scenario and emissions calculated		In the baseline scenario 100% vehicles in Tanzania in 2043 are ICE with emitting around 60 Mio tons CO2
Assumptions Describe assumptions made during calculation and quantification of GHG reductions		Assumptions are projection of future vehicle stock, demography, power mix, driving distance

Core indicator 2	**Anticipated increased economic, health, well-being, infrastructure and built environment, and ecosystems resilience to climate change impacts as a result of technical assistance** *Please provide a **qualitative** description of the anticipated impacts on the categories below*
Infrastructure and built environment Anticipated increased infrastructure resilience (avoided/mitigated climate induced damages and strengthened physical assets)	Increased stability of power system, increased quality of public transport, less traffic congestion
Ecosystems and biodiversity Anticipated increased ecosystem resilience (areas with increased resistance to climate-induced disturbances and with improved recovery rates)	
Economic Anticipated increased economic resilience (e.g. less reliance on vulnerable economic sectors or diversification of livelihood)	Increased accessibility of transport
Health and wellbeing Anticipated increased health and wellbeing of target group (e.g. improved basic health, water and food security)	Less local emissions of transport (Sox, Nox)

Core indicator 3	Anticipated number of direct and indirect beneficiaries as a result of the TA		
	Direct beneficiaries	**Indirect beneficiaries**	**Means of verification**
Adaptation related	Young population, different genders	Local economy	Future comparison of TCO between ICE vehicles and EVs, transport statistics
Mitigation related	City population	Agriculture sector	*Air quality measurement*
Both adaptation-and mitigation related	Vehicle drivers, commuters		*Transport statistics*

Core indicator 4	**Amount of funding/investment leveraged (USD) as a result of TA (disaggregated by public, private, national, and international sources, as well as between anticipated/confirmed funding)**

	Quantitative value Value and currency	**Qualitative description** List the various elements corresponding to the quantitative value as well as expected timelines and responsible institutions	**Methods** Describe method use for quantification of funds leveraged including assumptions made and attention paid to causality, attribution and avoidance of double-counting
Total anticipated amount of funding/investment mobilised or leveraged (USD) as a result of the TA	5.45 Mio USD	The TA created an application for the GCF fund on a bus depot for public transport serving for capacity building	Cost-breakdown of efforts
Anticipated amount of **public funding** mobilised from **national sources** (USD)			
Anticipated amount of **public funding** mobilised from **international and regional sources** as a result of the TA			
Anticipated amount of **private investment** mobilised (in USD) from **national sources** as a result of the TA			
Anticipated amount of **private investment** mobilised (in USD) from **international and regional sources** as a result of the TA			

Annex 2 (for internal use – to be filled in by the CTCN)

CTCN evaluation

This section will be completed by the relevant CTCN Technology Manager.

- Evaluation of the timeliness of the TA implementation as measured against the timeline included in the response plan;
- Evaluation of TA quality as defined in the response plan;
- Overall performance of the Implementers;
- Overall engagement of the NDE and Proponent;
- Lessons learned on the CTCN process and steps taken by the CTCN to improve.