UN environment programme | CTCN UN Climate Technology Centre & Network

Post-technical assistance implementation



28th Advisory Board Meeting
CTCN Secretariat
Agenda Item: 19.2
22 September 2026

Background and objective

- **At its 27th meeting, the Advisory Board** emphasized the importance of strengthening post-technical assistance mechanisms to better track results and facilitate the scale-up of technical assistance.

- This presentation provides an update on progress in implementing post-TA activities, **including mechanisms for scale-up tracking.**

- The Advisory Board is invited to provide guidance on the further implementation of post-TA activities.



Post-TA tracking mechanisms

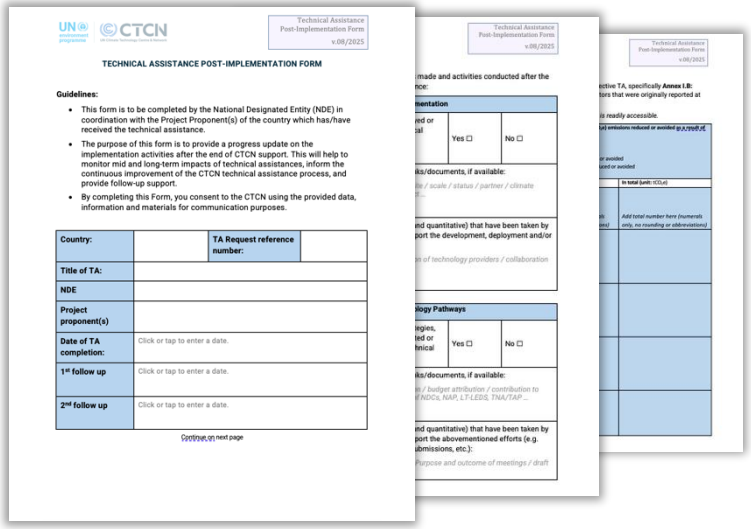
To better track results and facilitate the scale-up of technical assistance, <u>two (2) tracking mechanisms</u> are being implemented:

I. Post-TA tracking tool.

II. Post-Implementation Monitoring and Evaluation Form.

CTCN Post TA scale up tracking - 2026

No	Country	Title of the TA	Completion Date	Implementing Partner	Country of the IP	Anticipated follow up activities (country side)	Action points (CTCN)	Donor(s) to target	Project owner (public/private/joint)	Requested amount USD (grant/loan)
1	Thailand	Development of national hydrogen strategy and action plan for accelerating Thailand's net-zero target	2024 (Upload closure report)	National Institute of Green Technology (NIGT)	Republic of Korea	CN update and submission to the GCF	Involve AIIB to develop the CN			
2	Central African Republic	Production of affordable solar cookers in the deforestation-threatened Bangui region of the Central African Republic	Upload closure report			From the CN decide between: 1) nomination of university student(s) for a SEED Award, with ongoing coaching and assistance from Solar Cookers International and University of Bangui professors; and 2) development of a solar cooking master's program or course specialization at the University of Bangui.	I	IKEA Foundation Last Mile Foundation		
3	Timor Leste	Formulating a National Electricity Grid Code and Development of a Net Metering Policy	dic-25	Intelligent Energy Systems Pty Ltd. (IES)	Australia		CTCN will check on its status with NDE.			
5	Togo	Multi-country agrivoltaic technology project	Implementation	Planair	Switzerland	2 opportunities in Togo: Private sector : A German co	Continue to have contacts with EU Delegation. Continue to push the NDE on the private opportunity.			
6	Burundi	Resilient karusi	Implementation	Zephyr	Netherlands	AfDB is funding a cold storage project in the same re	Following the visit on site with AfDB, a call could be set up. Contract to be signed with Women`s Bank to formalize the agreement for the co-funding of the	afdb	public	630,000.00
	Burundi	Parametric Insurance	Bidding			Submission sent to AfDB + CIF + GASP. AfDB 750k USD // CIF 40MUSD// GASP 25MUSD (5 MUSD for CTCN		afdb, CIF, GASFP	public	65,750,000.00



I. Post-TA tracking tool

When tracking scale-up opportunities, different categories have been identified :

- Post TA funding proposals:
  - Developed and ready for submission
  - Approved Concept Notes
- Concept Notes ready to submit to the Green Climate Fund (GCF).
- Concept Notes ready to submit to the Adaptation Fund (AF), as part of AFCIA.
- Concept Notes ready to submit to specific governments/donors (e.g. South Korea-MSIT).
- Identification of other potential financing source of scale-up. (e.g., Regional Development Banks).

I. Post-TA tracking tool

Snapshot of TM-FM linkage scale-up

USD 229.05 million

Total value of approved GCF projects stemming from CTCN TA

Country	CTCN TA (USD)	GCF (USD)
Antigua and Barbuda	**95,740 -** completed in **2018**	**46.10M -** FP113 approved in **2020**
Cook Islands	**56,000 -** completed in **2020**	**3.69M -** Three Readiness approved in **2021-2023**
Ghana	**243,000 -** completed in **2018**	**70.20M -** FP265 approved in **2025**
Kenya	**75,000 -** completed in **2022**	**658,122 -** PPF approved in **2025** **96.90M -** FP292 approved in **2026**
Lao PDR	**245,179 -** completed in **2017**	**11.50M -** SAP009 approved in **2019**

I. Post-TA tracking tool

Spotlight on post-TA success stories - AFCIA

Burundi Smart Irrigation

Leveraged **USD 750,000** in co-financing from the African Development Bank **(AfDB)** for a smart irrigation and water balance monitoring platform in Burundi — 55% women beneficiaries **— and an MoU** signed with the Women's Investment and Development Bank and Youth Investment Bank to replicate the model in additional communities.

Saint Kitts and Nevis

The initiative attracted **$100,000** from the Caribbean Public Health Agency **(CARPHA)** to develop a Water Information System that will have an impact on the entire population of 47,000 inhabitants across both islands.

Ghana Insurance model

Mobilised **USD 300,000** in co-financing **from FSD Africa and ZepRe** for an integrated agricultural insurance and green credit scheme in Ghana, making solar-powered irrigation systems accessible to smallholder farmers.

Zimbabwe – value chain for mopane worms

Supported the transition of a women's cooperative in Zimbabwe from subsistence to bankable enterprise, **partnering with FBC Holding** to develop a commercially viable solar-powered dried mopane worm value chain and bring the product to market.

Tanzania : establishment of a government-led **climate innovation with Climate KIC.**

II. Post-Implementation Form

Background and Process

The Post-Implementation Form follows up on CTCN Technical Assistance **two to three years after completion** to capture mid- and long-term impact, inform continuous improvement of the TA process, and identify follow-up needs.

Targeted TAs: 57 completed TAs from 45 countries between 1 Jan 2023 and 31 Dec 2024.

April 2026
Form sent to all NDEs as part of the annual NDE Survey.

August 2026
Targeted follow-up: TA colleagues emailed individual NDEs with an outstanding TA to report on.

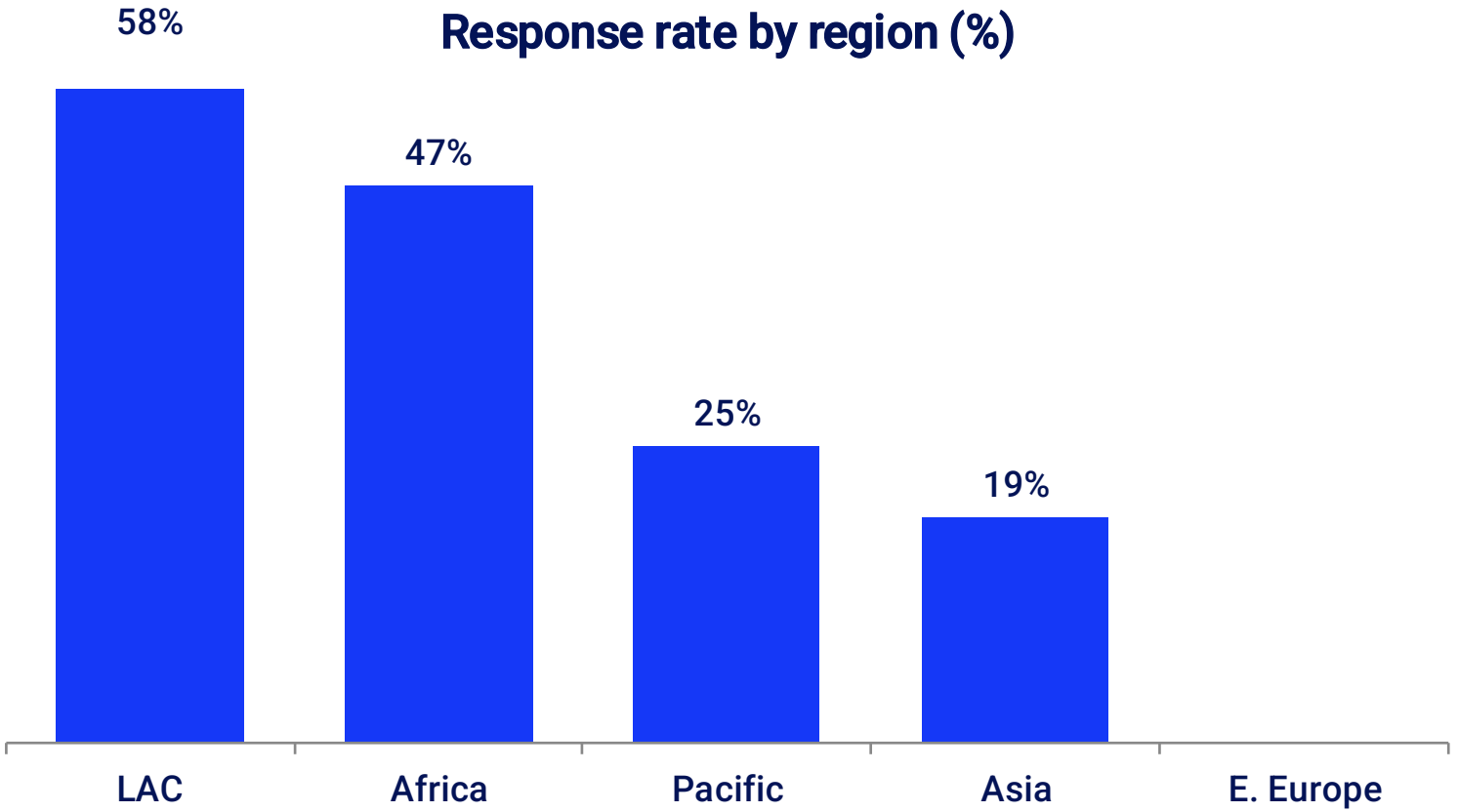
II. Post-Implementation Form - **Response Results**

21

Post-Implementation Forms received

37%

overall response rate



II. Post-Implementation Form - **Response Results**

Number of the 21 responding TAs answering "Yes" to each progress indicator.



Post-Implementation Form
1. Technology innovation & implementation

Lao PDR

Planning Vientiane's urban public-transport system

55 electric BRT buses

On a 12.9 km dedicated corridor with 27 stations — real-time info, automated fare collection, CCTV. Flagship deployment.

Supported by: *ADB / EIB*

Eswatini

Feasibility study of solar for sugarcane irrigation

7 solar PV plants (1,235 kW)

Grower-owned plants installed in 2025/26, cutting reliance on carbon-intensive imported grid power.

Supported by: *growers self-financed*

Zimbabwe

Developing national green-building standards

Green building handbook & rating

Green Building Design Handbook and Rating System, informed by energy audits of 26 buildings across four typologies.

Supported by: *UN-Habitat & Politecnico di Milano*

Key insight: Most "Yes" responses are enabling/analytical technologies advancing toward deployment; only Lao PDR and Eswatini report substantial hardware in place.

Post-Implementation Form
2. Enabling environment & technology pathways

Thailand

National hydrogen strategy & action plan for net-zero

Hydrogen designated as fuel

Ministry of Energy designated hydrogen and ammonia as fuels (2025) establishing a regulatory route for the hydrogen economy.

Panama

Development of Marine Dynamics Data

Climate Risk Atlas

Integrating information on hazards, exposure and vulnerability to support land-use planning and decision-making.
Update to the regulatory framework for climate change adaptation

Lao PDR

Planning Vientiane's urban public-transport system

NAP & Health-NAP adopted

EV registration and paid-parking measures supporting a 30% EV target.

Supported by *WHO (H-NAP)*

Key insight: Even where no hardware is deployed, TAs are shaping national enabling frameworks — the clearest, most reportable long-term impact.

Post-Implementation Form
3. Capacity building & training

Zimbabwe

Developing national green-building standards

60+ trained & 5 workshops

Confirmed participants across five 2024–2026 workshops, incl. policymakers, regulators and built-environment professionals.

Supported by: *UN-Habitat & GBCZ*

Costa Rica

National circular-economy transition strategy

34 finance-sector staff

Six-session circular-economy finance course for staff from **12 financial institutions and cooperatives,** each ending with a designed project.

Eswatini

Feasibility study of solar for sugarcane irrigation

47 growers trained

Training on embedded-generation rules and feed-in tariffs (40 prior solar adopters plus 7 new installers).

Post-Implementation Form
4. Stakeholder engagement & collaboration

Tanzania

National framework to scale up e-mobility

MoU with National Bank of Commerce

To jointly pursue GCF accreditation for low-carbon transport.

Zimbabwe

Developing national green-building standards

MoU with GBCSA

Formal agreement with the Green Building Council of South Africa; taking over hosting of the Africa Green Building Summit 2026.

Thailand

National hydrogen strategy & action plan

COP29 side event + TCMA

COP29 side event to share TA results, plus engagement with the Thai Cement Manufacturers Association on its net-zero pathway.

Key insight: Private-sector engagement is emerging (Thailand, PNG); a subset of links have hardened into formal MoUs (Tanzania, Zimbabwe).

Post-Implementation Form
5. Funding & investments

Lao PDR

Planning Vientiane's urban public-transport system

~USD 50M

ADB loan/grant extensions, EIB co-financing and national funds under the Vientiane Sustainable Urban Transport Project.

Saint Kitts & Nevis

Drought-risk modelling for water-resilience planning

USD 100,000

From the Caribbean Public Health Agency (CARPHA) to build a national Water Information System.

South Africa

STI-led circular economy roadmap

R44M ≈ USD 2.75M

DSTI allocated R44,000,000 of national funds to implement the Circular Economy ST&I Strategy; a funding partnership with Nedbank is being explored.

Supported by: *DSTI national budget*

Key insight: Matching the interest from potential donors on specific sector or type of technologies during the implementation can secure additional funding.

Spotlight- Pakistan

Pakistan Technology Roadmap for NDC Implementation

Total budget
USD 248,974

Duration
June 2023- November 2024 (18 months)

Implementing Partner
Global Green Growth Institute (GGGI)

Outputs

- Development of Response Plan and implementation planning and communication documents
- Technology Roadmap Coordination Mechanisms
- Identification of climate technologies for intervention in the high-impact sectors of waste management and water
- Development of technology roadmap for NDC implementation with 4 concept notes
- Preparation of Financing Support

Three different Scale Up

1. Biochar pre-feasibility – financing mobilized: USD 158,006 from the Korea Green New Deal Trust Fund (KGNDTF) supported biochar pre-feasibility studies, leading to the Pakistan Biochar Circular Economy Investment Platform (PB-CIP) proposal.

2. Biochar scale-up – proposal under consideration: EUR 5 million proposal submitted to the Italian Agency for Development Cooperation (AICS) to scale biochar solutions; currently under consideration

3. Water-efficient irrigation technologies with Consultative Group on International Agricultural Research (CGIAR): USD 25 million (GCF, blended financing)

Spotlight - Costa Rica

Type of TA: Regulatory Framework, sectoral roadmaps and strategies

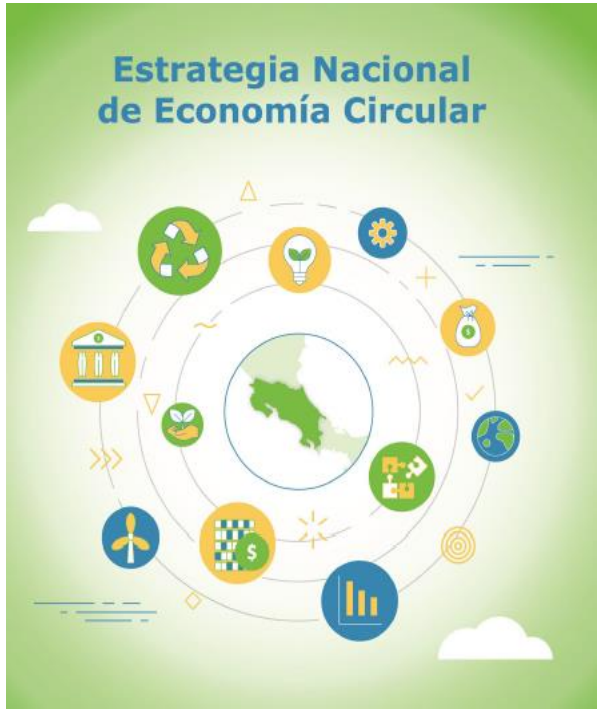
Local Level

Step-by-Step Guide for Circular Economy, 2021



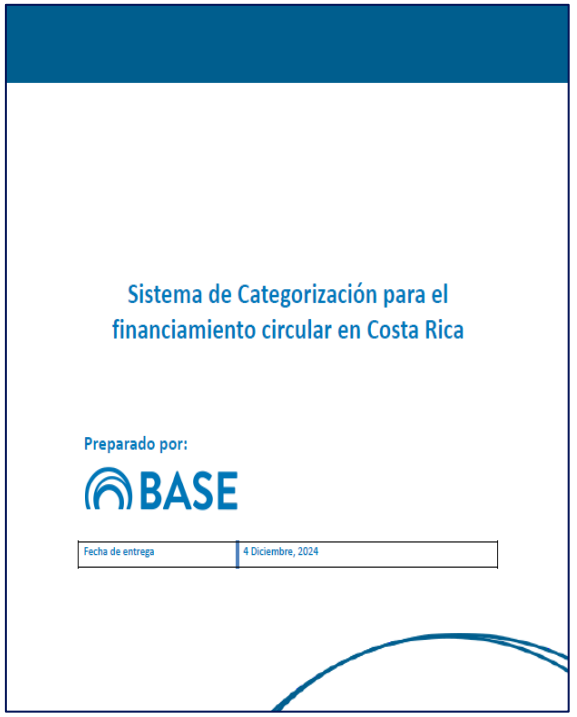
National Level

The National Circular Economy Strategy, 2023



Finance Sector

Categorization System for Circular Financing, 2024



Next steps from the country

First Circular Economy Public Policy

Post-Implementation Form
Successes and Challenges

Successes

- TA as a strategic foundation enabling transition.
- New institutional structures established.
- Strong alignment with NDCs and NAPs across almost all submissions.
- Emerging private-sector uptake.
- Government budget ownership (South Africa)
- Pipeline effect — several TAs generated new CTCN requests (Chile, SKN, Costa Rica).

Challenges

- Financing gap / no follow-on funding (South Africa, Zimbabwe, Togo, Paraguay).
- Data gaps for GHG and baseline quantification (Pakistan, Zambia, Zimbabwe).
- External shocks (the war in Sudan halted implementation).
- Regulatory and coordination delays; shifting political priorities (Pakistan, Lao PDR, Paraguay).

Core practices to repeat in future TAs

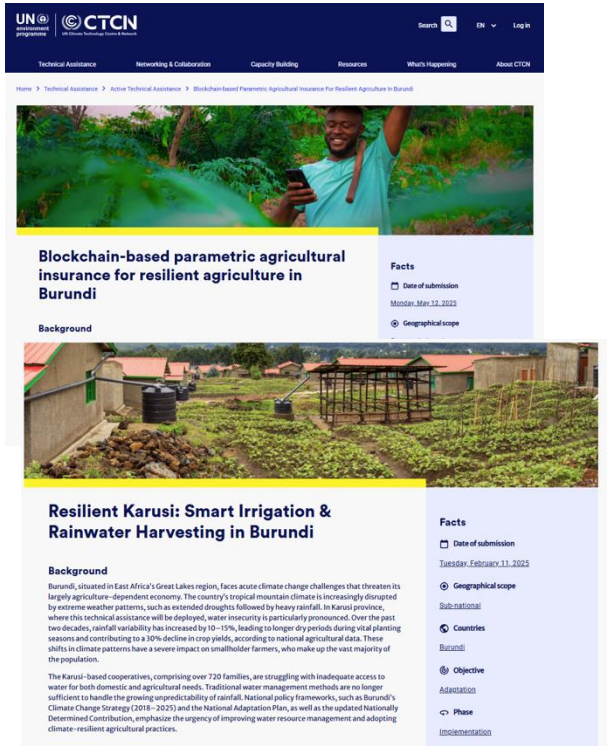
1. Long term vision is needed from the TA design stage

2. Pre-identify who would finance the post-TA implementation

   - **Public funding:** Which government institution, ministry, or national/regional climate fund (e.g., national climate fund, green investment facility) could co-finance or absorb the project?
   - **Private finance:** Is there a business model or revenue stream that could attract private investors, impact funds, or financial institutions? Who specifically?
   - **Blended finance:** Could a combination of public and private resources be structured — for example, with public funds de-risking private investment?

3. Match the interest from donors, development finance institutions, or regional funds that have publicly expressed support in a sector or type of technology/innovation

4. Initiate dialogue with any of these potential post-TA funders and involve them during the TA implementation phase.



UN environment programme | CTCN
UN Climate Technology Centre & Network

UNFCCC_CTCN
UNFCCC.CTCN
Climate Technology Centre Network

CTCN Secretariat
UN City, Marmorvej 51
DK-2100 Copenhagen, Denmark
www.ctc-n.org
ctcn@un.org

Supported by:

Funded by the European Union
環境省 Ministry of the Environment
METI Ministry of Economy, Trade and Industry
外務省 Ministry of Foreign Affairs of Japan
Ministry of Foreign Affairs of Denmark
Norwegian Ministry of Foreign Affairs
Green Climate Fund
United States of America
Adaptation Fund
Canada
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation
Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Economic Affairs SECO
gef
UK Government
Ministry of Science and ICT
Federal Ministry for Economic Affairs and Energy
Government Offices of Sweden
Ministry of the Environment and Energy
Ministero dell'Ambiente e della Tutela del Territorio e del Mare
NDC Partnership
Spanish Cooperation
Federal Ministry
Republic of Austria
Climate Action, Environment, Energy, Mobility, Innovation and Technology
Ministry for Foreign Affairs of Finland
Comhshaol, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government