4 (b) i Technology Needs Assessment (TNA): support for conducting TNAs and post-TNA implementation

Draft annotated outline for a knowledge product on how developing countries can be supported in implementing their TAPs and TNA outcomes

Approach, outline, next steps

Document TEC/2026/32/12

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United Nations Climate Change
Technology Executive Committee

UN environment programme | copenhagen climate centre

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I. Context and approach

Background

As per **Activity B.1.1 – TNA,** under the TEC rolling workplan for 2023-2027, in 2027 the TEC is to develop a knowledge product on how developing countries can be supported in implementing their TAPs and TNA outcomes.

At a glance: preparatory work of the Activity Group

- **Sep 2025**: Initial discussions at the margins of TEC 31, joined by the TEC Chair and UNEP-CCC
- **Dec 2025 – Jan 2026:** Conceptualization of work with support from the secretariat in collaboration with UNEP-CCC
- **February 2026:** Agreement on the approach to the design of the knowledge product and development of the draft annotated outline
- **March 2026**: Refinement and finalization of the draft annotated outline at the activity group meeting, for consideration at TEC 32
- **April 2026 (TEC 32)**: Guidance by the TEC for further work on this matter

TEC & UNEP-CCC knowledge product on post-TNA support

Proposed approach

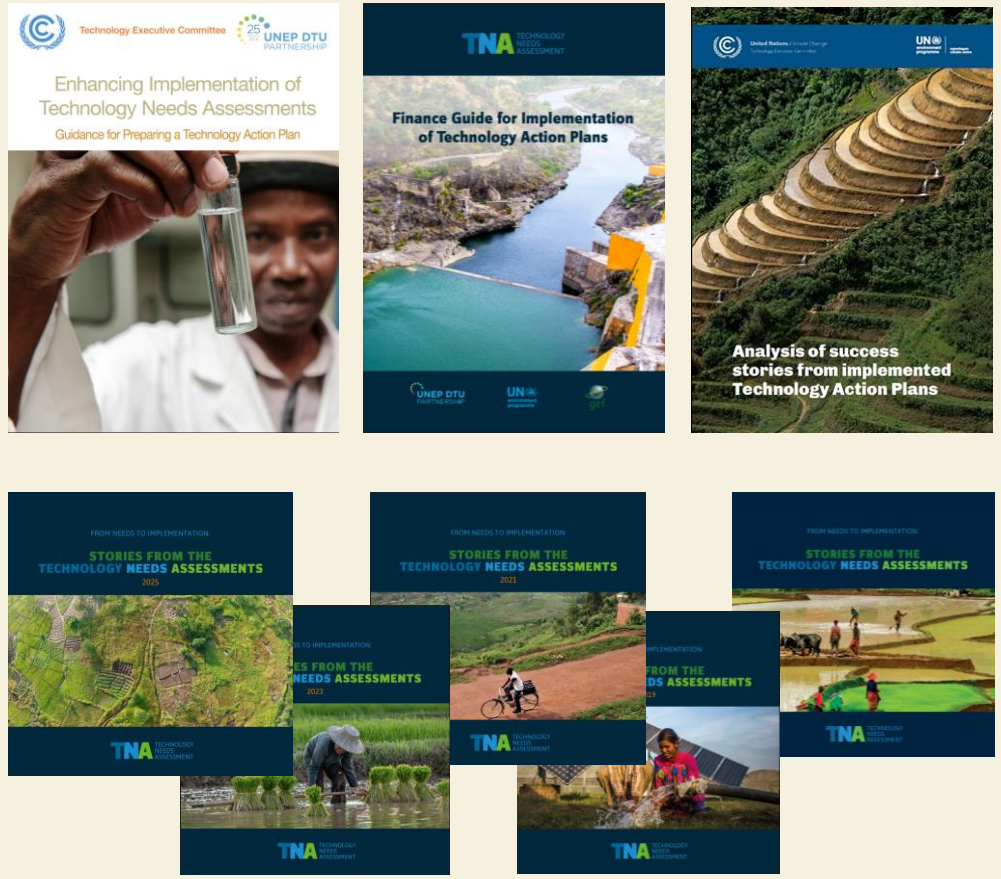
Building on available TNA-related knowledge and experience and presenting easy-to-digest practical insights that could inform and inspire action and support for post-TNA implementation.

Sources of information

UNFCCC, TEC and UNEP-CCC publications, UNEP-CCC implementation tracking data base, CTCN technical assistance, success stories brochures, synthesis reports, and other relevant TNA/TAP guidance and knowledge products.

Proposed outputs

Short paper and presentation slides, both including visual elements.



+ additional post-TNA implementation stories from countries & partners

II. Draft annotated outline

Draft outline

1. Introduction

2. From Technology Action Plans to Implementation
    - 2.1 National-Level Support for Policy and Institutional Integration
    - 2.2 Concessional Finance, Readiness Support and Grants
    - 2.3 Bilateral Support and Technology Cooperation
    - 2.4 Technical Assistance and Advisory Support
    - 2.5 Private Sector Collaboration and Partnerships

3. Practical Recommendations

4. Conclusions

5. References

1. Introduction (~1-2 page)

Purpose: To set the context for the paper.

Annotation: Explains the context and scope of the knowledge product, explains the evolution and role of TNAs/TAPs within national climate planning and investments, and states the objective of analyzing how countries can be supported in forging and utilizing implementation pathways for moving from technology prioritization to action and impact on the ground.

Possible illustrations: Illustrations of the TNA/TAP implementation cycle, from needs to implementation.

2. From Technology Action Plans to Implementation (~5-6 pages)

Purpose: To outline five non-exclusive and non-exhaustive pathways through which countries can be supported to move from TAPs to real-world implementation.

Possible illustrations: Country illustrations from integrating TAPs and other TNA outcomes into policy frameworks and multi-level climate action.

Structure

2.1 National Level Support for Policy and Institutional Integration: Embedding TAP priorities within national climate policies ensures political alignment and resource mobilization.

2.2 Concessional Finance and Grants: Concessional loans and grants help de-risk early-stage technology deployment for developing countries.

2.3 Bilateral Support and Cooperation: Bilateral partners provide targeted technical, financial, and regulatory support aligned with national strategies.

2. 4 Technical Assistance and Advisory Services: Technical support strengthens capacity, prepares project pipelines, and improves regulatory environments.

2.5 Private Sector Engagement: Private sector drives innovation, piloting, manufacturing, and scaling of priority climate technologies.

3. Practical recommendations (~2-3 pages)

Purpose: To provide practical guidance to developing countries for making use of the outlined avenues of support, often in combination, for advancing post-TNA implementation, according to their national priorities and circumstances.

Annotation: The practical recommendations may inform actions by policymakers, NDEs, line ministries, and development partners, and would correspond to the outlined avenues in section 2:

1. Governance and strategic integration (e.g. national planning and budgeting process, national climate policy frameworks);
2. Project preparation, capacity-building and technical assistance;
3. Bilateral support and technology cooperation;
4. Financing (grants and concessional);
5. Private-sector collaboration (e.g. PPPs, research, development and demonstration, piloting);
6. Cross-cutting considerations (e.g. post-TNA engagement strategy with implementation partners, management planning, resource mobilization strategy).

Possible illustrations: Illustrations of different support avenues and actors relevant to each that can be utilized by developing countries in advancing post-TNA implementation.

4. Conclusions (~1 page)

Purpose

- Reaffirm the importance of **country-driven strategies** for mobilizing support.
- Emphasize the need for **multi-source, multi-pronged**, and **ecosystem-connected** support frameworks to ensure TNAs lead to real action and lasting impact.
- Highlight the **diverse actors and interventions** that can contribute to post-TNA implementation.
- Stress that **TNAs/TAPs are evolving into investment-relevant tools** that can attract and structure finance.
- Outline opportunities for **next-generation TNAs**, building on lessons learned and growing demand for actionable, finance-ready outputs.

III. Further development and next steps

Looking ahead

- **Apr (TEC 32):** receiving feedback and guidance for further work
- **Apr – May**: gathering implementation stories from interested actors (e.g. TNA focal points, NDEs. climate funds, MDBs)
- **May – Aug:** development of the draft knowledge product
- **Sep (TEC 33):** Guidance for further work/finalization of the knowledge product
- **Post-TEC 33**: Finalization of the knowledge product and development of an accompanying presentation package
- **Remainder of 2026-2027**: outreach + dissemination

Considerations at TEC 32:

- Do you agree with the proposed approach to the development and outputs of this activity i.e. paper + presentation?
- Do you have any comments on the proposed annotated outline for the knowledge product?
- Do you agree with the proposed timeline and next steps?
- Would you like to share any further considerations and ideas to inform and enrich this work?