



Technology Executive Committee

04 April 2024

Twenty-eighth meeting

16–19 April 2024 (19 April TEC-CTCN Advisory Board Joint session)

**Monitoring and evaluating the joint collaborative efforts of
the Technology Executive Committee and the Climate
Technology Centre and Network.**

I. Background

1. At their joint session in September 2023, the TEC and CTCN Advisory Board, took note of a presentation by both secretariats on the status of the monitoring and evaluation work of the TEC and the CTCN, including the NDE survey, and highlighting possible gaps in terms of monitoring joint collaborative efforts.
2. The TEC and the CTCN Advisory Board requested their Chairs and Vice-Chairs to conduct an analysis of the monitoring and evaluation systems of the bodies and an overall analysis of the joint monitoring and evaluation indicators for the joint work of the two bodies, with the aim of satisfying the existing reporting requirements.
3. The TEC and the CTCN Advisory Board agreed to establish an open-ended joint activity group to discuss the matter and present the analysis at the next joint session during TEC 28 and CTCN AB 23.
4. The joint activity group convened twice intersessionally, on 7 March and 4 April 2024, to advance work on joint monitoring and evaluation. During the first meeting, members agreed on two interconnected areas of work: firstly, to further refine the indicators presented at the joint meeting in September 2023 on M&E progress for joint activities, and secondly, on an initial mapping exercise to establish a common understanding of the joint reporting requirements for the technology mechanism as a whole are (as opposed to those pertaining to the TEC or CTCN individually).
5. During its second meeting, the joint activity group deliberated on a three-pronged approach to advance the joint M&E efforts:
 - (a) As an initial step, the joint activity group proposed consolidating the existing M&E systems from both the TEC and the CTCN into a single background document. This document would also including the draft proposed indicators for joint activities, which were introduced during the group's second meeting (see annex below);
 - (b) As a second step, the joint activity group proposed integrating the preliminary mapping of joint reporting requirements, which was discussed during their second session. This initial mapping would serve as a framework for conducting further evaluation of how these reporting requirements are currently being addressed or fulfilled through existing TEC and CTCN information channels (see annex below);
 - (c) Finally, the joint activity group proposed utilising steps (a) and (b) to conduct an analysis aimed at identifying potential gaps in meeting the joint reporting requirements. Subsequently, this analysis would inform potential adjustments to the M&E systems outlined in step (a), thus ensuring a more comprehensive and effective monitoring and evaluation framework (work to be carried out following the guidance from the TEC and CTCN AB);

II. Scope of the note

6. This note contains the contents outlined in paragraphs 5(a) and 5(b) above.

III. Possible actions by the Technology Executive Committee and the Climate Technology Centre and Network Advisory Body

7. The TEC and CTCN Advisory Board will be invited to consider the information provided and provide guidance.

Annex

Monitoring and Evaluation of the joint collaborative efforts of the Technology Executive Committee and the Climate Technology Centre and Network

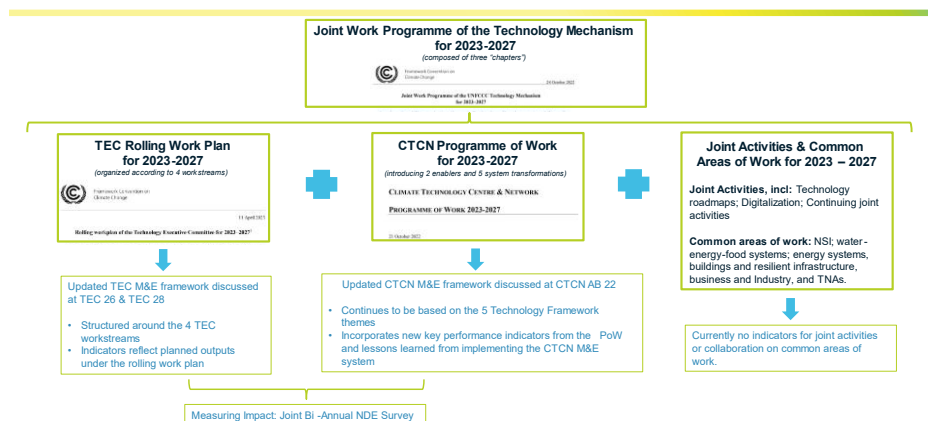
1. The Joint Work Programme of the Technology Mechanism (2023–2027) is composed of the joint activities and common areas of work of the Technology Executive Committee (TEC) and the Climate Technology Centre and Network (CTCN), the rolling workplan of the TEC and the Programme of Work of the CTCN.¹ The Joint Work Programme brings together, for the first time, the long-term strategies of the TEC and the CTCN and defines areas of focus for the mechanism as a whole, in order to elevate its performance and increase its impact.

2. Following the outcomes of the second meeting of the joint activity group, the annex to the background note has been structured in accordance with the outlined three-pronged approach.

(a) **Consolidating the M&E systems of both the TEC and CTCN into a single document, alongside the draft proposed indicators for joint activities:**

3. At their joint session in September 2023, the TEC and CTCN AB took note of a presentation by the secretariat regarding the status of M&E work of the TEC and the CTCN. The presentation included an overview slide depicting the current status of M&E for the Technology Mechanism at the time, as shown below:

Figure 1
Background slide depicting status of M&E systems under the Joint Work Programme as of Sept. 2023



4. Regarding the TEC’s M&E, the TEC established its M&E system in 2020 and has since refined it through revisions and adjustments based on implementation experiences and lessons learned. To adapt to the updated structure of the TEC's rolling workplan for 2023-2027, discussions are underway regarding potential revisions to the M&E system. These revisions aim to enable ongoing monitoring and evaluation of TEC activities.²

5. Regarding the CTCN's M&E system, implementation began in 2020 under its second programme of work. The M&E indicators of the CTCN are used for annual reporting of the Centre's activities through the Annual Operating Plan (AOP) report. During its 22nd meeting,

¹ See paragraph 1 of the Joint Work Programme.

² See TEC document TEC/2024/28/12 to be discussed at TEC 28.

the CTCN AB reviewed revisions to the M&E indicators, in the context of discussions on M&E and the Annual Operating Plan for 2024, to align with the third Programme of Work and ensure continuity in data collection and reporting.³

6. The proposed indicators to monitor and evaluate the joint activities of the TEC and CTCN can be found in the table below and are structured as follows:

(a) **Impact:** The impact statement is taken from both the TEC and CTCN monitoring and evaluation frameworks, as they share a common aim to facilitate the impact sought by the Technology Framework in Article 10, paragraph 1 of the Paris Agreement:

“Parties share a long-term vision on the importance of fully realizing technology development and transfer in order to improve resilience to climate change and to reduce greenhouse gas emissions”.

(b) **Outcomes:** The outcome statement has been taken from the focus area statement of the joint activities of the TEC and CTCN, as referenced in paragraph 27 of the joint work programme:

“The work of the TEC and the CTCN, through their joint work programme, focuses on facilitating and stimulating the uptake of technologies to support NDC ambition and implementation, and enhancing the role of innovation in deploying technological solutions at a faster pace and at scale”

(c) **Outputs:** The outputs reflect the outputs of joint activities of the TEC and CTCN, as defined in the joint work programme of the Technology Mechanism for 2023-2025. These activities and outputs intend to generate the conditions that will lead to the changes observed in the outcome. The main assumption at the output level is that the recommendations, key messages, publications and other joint knowledge sharing products must be disseminated, for these outputs to start generating the expected outcomes.

³ See CTCN AB 22 document AB2023.22.25

Table 1

Draft proposed joint indicators for the monitoring and evaluation of the joint activities of the TEC and CTCN

Level	Results	Indicators	Targets by 2027	Means of Verification
Impact	Parties share a long-term vision on the importance of fully realizing technology development and transfer in order to improve resilience to climate change and to reduce greenhouse gas emissions	Number of NDC's that reflect prioritized technologies, including referring to the technology planning tools (TNA, TRM)	N/A	Measured every 5 years. NDCs submitted to UNFCCC
Outcome 1	Various actors enhance the uptake of new and existing climate technologies to support NDC ambition and implementation, including through amplifying the role of innovation in deploying technological solutions at a faster pace and at scale.	1. Evidence of stakeholders using joint TEC and CTCN policy recommendations and publications on climate technologies to support NDC ambition and implementation when deploying new and existing climate technologies: Number of % increase in downloads of joint publications; Number of % increase in number of participants in joint events (gender disaggregated); Number of experts who have been matched through the Gender and Climate Technology Roster	N/A	NDE feedback form List of examples of the uptake of TEC and CTCN joint outputs.
Output 1	Joint policy recommendations, key messages and knowledge on climate technologies to support NDC ambition and implementation	1.1 Number of sets of joint policy recommendations (comprising multiple policy recommendations) developed on climate technologies, including innovative climate technologies, to support NDC ambition and implementation	5 ⁴	List of policy recommendations on innovative on climate technologies to support NDC ambition and implementation

⁴ Minimum one set of policy oriented key messages and recommendations distributed across the joint TEC-CTCN activities.

		1.2. Number of joint publications developed on climate technologies, including innovative climate technologies, to support NDC ambition and implementation	2	TT: CLEAR and CTCN website
		1.3. Number of joint events organised on climate technologies, including innovative climate technologies, to support NDC ambition and implementation	10	TT: CLEAR and CTCN Website
Output 2	Joint strategic engagement with other actors to support NDC ambition and implementation	2.1 Number of joint strategic engagements and collaborations with other actors to support NDC ambition and implementation, including UN constituencies and observer organizations such as the WGC and the LCIPP	5	TT: CLEAR and CTCN Website
		2.2 Number of responses received for the biennial Technology Mechanism NDE survey (gender disaggregated)	50% response rate ⁵	UNFCCC Technology Mechanism NDE survey
		2.3 Number of experts signed up to the gender and climate technology roster	TBD	CTCN Website

(b) Preliminary mapping of joint reporting requirements

7. Joint reporting requirements are understood to refer to the obligations for the TEC and CTCN to collectively submit reports or inputs to reports on matters related to the Technology Mechanism as a whole. Typically, these requirements involve the TEC and CTCN collaborating to compile and submit information that reflect their joint contributions and progress of the joint work of the TEC and CTCN towards achieving the overarching impact sought by Article 10, paragraph 1 of the Paris Agreement.

8. The draft mapping of joint reporting requirements is intended to offer an initial overview of existing obligations for reporting with a view to guiding further follow-up actions.

⁵ Response rate will be determined by dividing the total number of responses collected by the number of countries served by the CTCN.

Table 2
Draft overview of joint reporting requirements

Overarching joint reporting requirements	Related joint reporting element and sources of input
<p>Joint Chapter of the TEC – CTCN Annual Report to the COP and CMA</p> <ul style="list-style-type: none"> • COP 21 invited the TEC and the Advisory Board of the CTCN to update the procedures for preparing the joint chapter of the joint annual report of the TEC and the CTCN.⁶ • COP 22 encouraged the TEC and the CTCN to continue updating the procedures for preparing the joint chapter of their joint annual report and to report on the outcome of this work in their joint annual report to COP 23.⁷ 	<p>The updated procedures for preparing the joint annual report provide guidance on the overall structure of the Joint Annual Report (joint chapter; report of the TEC; report of the CTCN) and the process for preparing the joint chapter. However, they do not provide guidance on the reporting requirements for the joint chapter.</p> <p>However, several decisions pertaining to the joint work programme of the Technology Mechanism and the Periodic Assessment necessitate specific joint reporting in the Joint Annual Report on issues related to the joint collaborative efforts. For example:</p> <p>Decision 19/CMA.4 & Decision 18/CP.27</p> <ul style="list-style-type: none"> • 6. Requests the TEC and the CTCN to include information in their joint annual reports (...) <u>on activities and actions under the technology framework that have been implemented under the joint work programme.</u> • 12. Notes that the joint annual report referred to in paragraph 1 above does not contain information on how the TEC and the CTCN responded to mandates of Parties in the implementation of their work and requests the two bodies to include such information in their joint annual reports. <p>Decision 20/CMA.4</p> <ul style="list-style-type: none"> • Requests the TEC and the CTCN to include in their joint annual report for 2023 and in subsequent reports (...) information on actions undertaken in response to the recommendations contained in the final report of first periodic assessment of the Technology Mechanism. <p>Decision 14/CMA.5 / Decision 9/CP.28</p> <ul style="list-style-type: none"> • 11. Notes with appreciation the information prepared by the TEC and the CTCN on their action taken in response to the mandates (...) and invites the TEC and the CTCN to provide such information in their joint annual reports. <p>Decision 19/CMA.4</p> <ul style="list-style-type: none"> • Requests the TEC and the CTCN to include information in their joint annual reports (...) on activities and actions under the technology framework that have been implemented under the joint work programme.

⁶ Decision 12/CP.21, paragraph 2.

⁷ Decision 15/CP.22, paragraph 5.

Overarching joint reporting requirements	Related joint reporting element and sources of input
<p>Technology framework under Article 10, paragraph 4, of the Paris Agreement (Decision 15/CMA.1)</p> <p>The purpose of the technology framework under the Paris Agreement is to provide overarching guidance to the work of the Technology Mechanism in promoting and facilitating enhanced action on technology development and transfer in order to support the implementation of the Paris Agreement in pursuit of the long-term vision referred to in its Article 10, paragraph 1.</p> <p>The technology framework can play a strategic role in improving the effectiveness and efficiency of the work of the Technology Mechanism (...) by addressing the transformational changes envisioned in the Paris Agreement and the long-term vision for technology development and transfer.</p>	<p>Decision 15/CMA.1</p> <ul style="list-style-type: none"> 2. Decides that the TEC and the CTCN, consistently with their respective functions, mandates and modalities of work, shall implement the technology framework in close collaboration under the guidance of the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement. <p>Decision 19/CMA.4</p> <ul style="list-style-type: none"> Requests the TEC and the CTCN to include information in their joint annual reports (...) on activities and actions under the technology framework that have been implemented under the joint work programme.
<p>First periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer (Decision 1/CP.21)</p>	<p>The scope of and modalities for the periodic assessment (Decision 16/CMA.1) outline the assessment of the following:</p> <ol style="list-style-type: none"> On the effectiveness of the Technology Mechanism, the scope may include the assessment of the impact, outputs and outcomes of the Technology Mechanism, in particular, how it has: <ol style="list-style-type: none"> Facilitated the transformational changes envisioned in the Paris Agreement. Contributed to the achievement of the long-term vision referred to in Article 10, paragraph 1, of the Paris Agreement. Contributed to strengthening cooperative action on technology development and transfer. Enhanced the implementation of the technology elements of nationally determined contributions and technology needs assessments. Resulted in quantitative impacts through technical assistance, including potential emission reductions, the number of technology solutions delivered, and investments leveraged. Undertaken its work in a cost-effective and efficient manner. Achieved success in terms of how the bodies of the Technology Mechanism have implemented their workplans. Overcome challenges. Identified opportunities for improvement.

Overarching joint reporting requirements	Related joint reporting element and sources of input
	<p>(j) Collaborated with other stakeholders in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer.</p> <p>(k) Responded to the overarching guidance provided by the technology framework referred to in Article 10 of the Paris Agreement, including aligning its work with the themes of the technology framework.</p> <p>(l) Responded to existing mandates under the Paris Agreement and to guidance from Parties.</p> <p>2. On the adequacy of the support provided to the Technology Mechanism the scope may include, but is not limited to, the assessment of:</p> <p>(a) The recipients of the support provided: (i) The TEC; (ii) The CTCN, including the national designated entities.</p> <p>(b) The sources of support provided.</p> <p>(c) The types of support provided.</p> <p>(d) How the support provided was used, taking into account actions at the different stages of the technology cycle: (i) Mitigation actions; (ii) Adaptation actions; (iii) Cross-cutting actions.</p> <p>(e) The level of support provided and whether it has changed over time.</p> <p>(f) The extent to which the support has met the budgets and plans of the Technology Mechanism.</p> <p>3. The periodic assessment is both qualitative and quantitative:</p> <p>(a) Qualitative elements may include reviewing existing reports and gathering information from stakeholders.</p> <p>(b) Quantitative elements may include collecting data and undertaking statistical analysis.</p> <p>4. The sources of information for the periodic assessment include, but are not limited to:</p> <p>(a) The technology framework.</p> <p>(b) The joint annual reports of the TEC and the CTCN to the CMA.</p> <p>(c) Other UNFCCC reporting documents and processes relevant to the implementation of the Paris Agreement on matters relating to technology development and transfer.</p> <p>(d) Information provided by relevant stakeholders; (e) Documents and outcomes resulting from the independent reviews of the CTCN.</p> <p>(f) Where relevant, reports of the Intergovernmental Panel on Climate Change</p>

Overarching joint reporting requirements	Related joint reporting element and sources of input
<p>Global Stock take of the Paris Agreement</p>	<p>The technology-related inputs for the First Global Stock take included:⁸</p> <ol style="list-style-type: none"> 1. Information collection and preparation phase: The choice of information gathered, compiled and synthesized is determined by Article 14 and decision 19/CMA.1, including the guiding questions developed by the SB Chairs. <p>19/CMA.1 further stipulates that:</p> <p>The information types include:</p> <ul style="list-style-type: none"> • Barriers and challenges, including finance, technology (including outputs of the periodic assessments of the technology mechanism) and capacity-building gaps, faced by developing countries. <p>The information sources include:</p> <ul style="list-style-type: none"> • Reports from relevant constituted bodies and forums and other institutional arrangements under or serving the Paris Agreement and/or the Convention. <p>(refer to TEC input: <i>Technology Executive Committee Synthesis report for the technical assessment component of the first Global Stock take: Information on matters related to technology development and transfer, including the information referred to in Article 10 of the Paris Agreement, barriers and challenges faced by developing countries and good practices, experiences and potential opportunities to enhance international cooperation on mitigation and adaptation</i>)</p> <ol style="list-style-type: none"> 2. Technical Assessment phase, including: <p>Three Technical Dialogues were held to develop a shared understanding of the latest information on the implementation of the Paris Agreement and progress towards the purpose and its long-term goals, based on the best available scientific information.</p> <p>TD formats: plenary sessions, round tables, world café – technology development and transfer one of the topics discussed.</p> 3. Consideration of outputs phase <p>High-level events where the findings and implications of findings are presented and discussed by Parties.</p>

⁸ Further details on Technology in the Global Stock take can be found [here](#).