



Technology Executive Committee

25 August 2026

Thirty-third meeting

15–18 September 2026 (18 September 2026 TEC-CTCN Advisory Board Joint Session)

Mapping mandates for the TEC arising from the Belém Technology Implementation Programme to inform the development of the next TEC rolling workplan

Background note

A. Background

1. By decision 18/CMA.7, Parties adopted the Belém Technology Implementation Programme (BTIP) and decided that its implementation would commence immediately after CMA 7 (November 2025).¹
2. At TEC 32, in consideration of relevant mandates arising from the BTIP, the TEC highlighted the importance of, inter alia, conducting mapping exercises and analytical work to inform the development of its next rolling workplan, in line with its functions and building on the knowledge and experience accumulated to date.² The TEC requested its Chair and Vice-Chair, with the support of the secretariat and on the basis of the feedback provided at the meeting, and in accordance with the TEC rules of procedure, to advance this work intersessionally.

B. Scope of the note

3. The annex to this note, prepared under the guidance of the TEC Chair and Vice-Chair, contains a mapping of mandates for the TEC arising from the Belém Technology Implementation Programme to inform the development of the next TEC rolling workplan.

C. Possible actions by the Technology Executive Committee

4. The TEC will be invited to consider this mapping in developing its next rolling workplan and other actions in response to the Belém Technology Implementation Programme mandates.

¹ Decision [18/CMA.7](#), para. 24.

² See TEC document TEC/2026/32/23, para. 14.

Annex

Mapping mandates for the TEC arising from the Belém Technology Implementation Programme to inform the development of the next TEC rolling workplan

I. Context

1. The Belém Technology Implementation Programme (BTIP), adopted by decision 18/CMA.7 was established as part of the consideration of the outcomes of the first Global Stocktake under the Paris Agreement (decision 1/CMA.5, para. 110). It aims to:

(a) Strengthen support for the implementation of technology priorities identified by developing countries, e.g. in [NDCs](#), [TNAs](#), [NAPs](#) and [LT-LEDS](#);

(b) Address the challenges identified in the first periodic assessment of the Technology Mechanism ([FCCC/SBI/2022/13, paragraph 68](#)).

2. At its first meeting in 2026, the TEC considered and discussed the mandates for the TEC arising from the BTIP. The TEC agreed to include in its rolling workplan for 2023–2027 a new activity D.10.1, with deliverables for 2026 and 2027, on the organization of the global in-session dialogue under the BTIP in response to paragraphs 11–14 of decision 18/CMA.7, noting that other relevant mandates in this period will be responded to through existing modalities and processes for the TEC work including those relating to work planning, resource mobilization and reporting. The TEC highlighted the importance of, inter alia, conducting mapping exercises and analytical work to inform the development of its next rolling workplan, in line with its functions and building on the knowledge and experience accumulated to date ([TEC/2026/32/23, para. 14](#)).

3. The current paper illustrates alignments between the elements of the BTIP and the functions of the TEC, using the themes of the technology framework as the common reference point. The paper aims to provide analytical insights that may inform the work of the TEC in its next rolling workplan to effectively respond to the BTIP.

II. Mandate of the TEC

A. TEC functions

4. Created in 2010, the Technology Executive Committee (TEC) is the policy arm of the [Technology Mechanism](#), established to inter alia accelerate action consistent with international obligations, at different stages of the technology cycle, including research and development, demonstration, deployment, diffusion and transfer of technology. The TEC has the following functions, established by paragraph 121 of decision 1/CP.16:

(a) Provide an overview of countries' climate technology needs and analyse policy and technical issues related to climate technology development and transfer for mitigation and adaptation

(b) Consider and recommend actions to promote technology development and transfer, in order to accelerate action on mitigation and adaptation;

(c) Recommend guidance on policies and programme priorities related to technology development and transfer with special consideration given to the least developed country Parties;

(d) Promote and facilitate collaboration on the development and transfer of technologies for mitigation and adaptation between governments, the private sector, nonprofit organizations and academic and research communities;

(e) Recommend actions to address the barriers to technology development and transfer in order to enable enhanced action on mitigation and adaptation;

(f) Seek cooperation with relevant international technology initiatives, stakeholders and organizations, and promote coherence and cooperation across technology activities, including activities under and outside of the Convention;

(g) Catalyse the development and use of technology road maps or action plans at the international, regional and national levels through cooperation between relevant stakeholders, particularly governments and relevant organizations or bodies, including the development of best practice guidelines as facilitative tools for action on mitigation and adaptation.

B. Guidance contained in the technology framework

5. In serving the Paris Agreement, the TEC has aligned its work with the five themes of the technology framework, adopted in 2018 ([Decision 15/CMA.1](#)). The technology framework provides 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. It outlines actions and activities under each of the five key themes to guide the work of the TEC, as consistent functions, mandates and modalities of work on:

(a) **Innovation** e.g. by promoting the development, deployment and dissemination of existing innovative technologies and accelerating the scale-up and diffusion of emerging climate technologies;

(b) **Implementation** e.g. by reviewing the TNA guidelines and updating them as necessary with a view to TNAs leading to plans and implementation that are aligned with the transformational changes envisioned in the Paris Agreement;

(c) **Enabling environment and capacity-building** e.g. by formulating and analysing information on capacity-building activities at different stages of the technology cycle;

(d) **Collaboration and stakeholder engagement** e.g. by enhancing engagement and collaboration with the private sector; and

(e) **Support**, e.g. by identifying and promoting innovative finance and investment at different stages of the technology cycle.

C. Findings of the periodic assessment of the Technology Mechanism under the Paris Agreement

6. Through the first periodic assessment of the Technology Mechanism under the Paris Agreement ([Decision 20/CMA.4](#)), Parties have provided additional guidance to the TEC in order to, inter alia, enhance its effectiveness in supporting the implementation of the Paris Agreement. Table 1 provides an overview of the challenges identified in and recommendations emerging from the first periodic assessment ([FCCC/SBI/2022/13](#)), with aspects related to the TEC highlighted in bold.

Table 1

Findings from the first periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism

Challenges (para. 68)	Recommendations (paras. 69-76)
a) The Technology Mechanism's role in facilitating the transformational changes towards climate resilience and low GHG emission development envisioned in the Paris Agreement is considered to be constrained by the large scale of action required to achieve the purpose and long-term goals of the Paris Agreement, coupled with the limited resources allocated to the Mechanism; b) Assessing the impacts of the Technology Mechanism in quantitative terms is complex, as they are intended to catalyse systemic change, which is not visible in the short term and would require a more sophisticated and resource-intensive monitoring and evaluation system (notably for the TEC); c) Limitations in terms of dissemination and use of TEC products by the CTCN, NDEs and Parties have been observed; d) The engagement of the private sector and the research community in the work undertaken by TEC and the CTCN could be enhanced; e) There is a lack of follow-up activities for the technical assistance projects of the CTCN, owing to the limited resources of the CTCN to scale up technology deployment and the limited engagement and capacity-building of a wider range of local stakeholders during the implementation phase to scale up on their own, which creates uncertainties with regard to the sustainability of long-term outcomes and impacts; f) NDEs lack political support and visibility in order to raise their profile within Government and the private sector, and would benefit from additional financial, material and human resources from both the Technology Mechanism and their national host institutions in order to fulfil their roles; g) The CTCN has faced challenges in implementing its resource mobilization strategy by diversifying its funding streams (e.g. it did not receive any financial support from MDBs, the private sector, or philanthropic or innovative sources) and being financially autonomous (owing to a lack of regular and predictable funding and earmarking that tends to shift the focus of the CTCN towards specific activities or locations), which has had a negative impact on its ability to respond to requests for technical assistance; h) A lack of resources allocated to CTCN technical assistance with an adaptation focus or supporting hardware implementation has been noted by stakeholders, although not all stakeholders agree that the Technology Mechanism should support hardware implementation; i) Although opinions of those surveyed and interviewed differed on whether financial, human and technical resources provided to the TEC and the CTCN are sufficient to achieve their mandates, the CTCN would have been able to respond to more country needs if increased resources were available, as well as conduct more follow-up activities and ex post project evaluations.	1. Recommendation 1 is to encourage the TEC and the CTCN to identify priority areas of work when developing their future workplans, using the guidance provided by the technology framework and the findings of the contribution of Working Group III to the AR6. 2. Recommendation 2 is to encourage the CTCN to review the guidance, response plan and closure report templates of technical assistance projects to improve the measurement and promotion of transformational change envisioned in the Paris Agreement. 3. Recommendation 3 is to encourage the TEC and the CTCN to explore the opportunity of establishing an integrated monitoring and evaluation framework for the Technology Mechanism in the context of the forthcoming TEC workplan and CTCN programme of work. 4. Recommendation 4 is to encourage the TEC and the CTCN to strengthen their collaboration regarding the outreach of TEC products and the creation of knowledge products that address the practical needs of developing countries. 5. Recommendation 5 is to encourage the CTCN to sustain technical assistance outcomes by reinforcing engagement and capacity-building of a broad range of local stakeholders and offering further follow-up of activities. 6. Recommendation 6 is to encourage the TEC to foster the participation of the research community and private sector. 7. Recommendation 7 is to encourage the TEC and the CTCN to continue efforts to enhance resource mobilization to meet the costs associated with their activities and to report on the lack of resources for implementing their respective mandates. 8. Recommendation 8 is to encourage the CTCN to pursue its efforts in building capacity for adaptation and in supporting an increase in technical assistance requests for adaptation.

D. Mandates arising from the Belém Technology Implementation Programme

7. Table 2 outlines mandates contained in decision 18/CMA.7 that are addressed to the TEC. Conceptually, these concern:

- (a) Dialogues under the BTIP;
- (b) TEC work planning on BTIP elements;
- (c) Partnership development and resource mobilization; and
- (d) Monitoring, evaluation and reporting on progress.

Table 2

Mandates to the TEC arising from the Belém Technology Implementation Programme

Mandates to the TEC in decision 18/CMA.7		Reference	Timeline
1	Incorporate, as appropriate, the elements referred to in paragraph 8 into its workplans, JWPs and monitoring and evaluation activities. These elements are: a) Addressing challenges to implementing the technology priorities of developing countries at different stages of the technology cycle and challenges identified in the first PATM, including through the exchange of information on enablers, good practices, challenges and lessons learned; b) Strengthening national systems of innovation as well as enabling environments, such as policy and regulatory environments, for technology deployment and diffusion, while ensuring research, development and demonstration continue to inform effective technology implementation, including for Indigenous and endogenous technologies; c) Providing support to developing countries, including national designated entities, for integrating their climate technology priorities into national policies, programmes and projects; d) Building capacity for the development of project concept notes and the preparation of fundable projects, and fostering matchmaking and partnership-building to enhance access to support for climate technology implementation by leveraging the resources and expertise of relevant bodies and entities; e) Mobilizing both financial and non-financial resources to enhance the support provided to the Technology Mechanism for supporting the implementation of the Paris Agreement.	Para. 8, 9	2026 onwards
2	Include information on actions taken to implement the BTIP in its annual reports	Paras. 10, 25	2026 onwards
3	Convene (together with the CTCN) global in-session dialogues at the first session of the SBI each year, with support from secretariat and interested partners and in consultation with the SBI Chair	Para. 11	2027 onwards
4	Determine the topics of the global in-session dialogues at its second meeting of the year each year	Para. 13	2026 onwards
5	Prepare summary report of the global in-session dialogues for inclusion in its annual report	Para. 14	2027 onwards
7	Collaborate with the CTCN for convening regional dialogues in conjunction with the NDE Forums	Para. 16	2027 onwards
8	Identify opportunities for collaboration with MDBs, climate financing institutions, and international organizations [...] in exploring synergistic ways to secure funding and other support for implementing the TIP	Para. 21	2026 onwards

III. Analysis of mandates arising from the Belém Technology Implementation Programme in the context of the TEC's work

8. In order to effectively incorporate the mandates arising from decision 18/CMA.7 in the next rolling workplan of the TEC, this section presents non-exhaustive mappings of areas in which the TEC could effectively support the implementation of the BTIP, consistent with its functions and guided by the technology framework under the Paris Agreement. These include:

- (a) Mapping of the elements of the BTIP against the five key themes of the technology framework, indicating the extent to which the BTIP brings new impetus and emphasis to the work of the TEC in support of the Paris Agreement (Table 3);

(b) Mapping the TEC functions against the BTIP elements, providing a non-exclusive overview of how the TEC functions may be utilized to support the implementation of the elements of the BTIP, focusing on overlapping themes of the technology framework between the two (Table 4);

9. In addition to these non-exhaustive, non-exclusive mappings, the TEC activities under its current rolling workplan (2023-2027) are also considered to showcase indicative examples of how TEC activities may correspond to the elements of the BTIP, consistent with its functions and guided by the technology framework of the Paris Agreement.

Table 3

Mapping the mandates from the Belém Technology Implementation Programme related to the themes of the technology framework, as relevant to the work of the TEC

Mandates to the TEC in decision 18/CMA.7		Technology Framework Themes				
		Innovation	Implementation	Enabling environment & capacity-building	Collaboration & stakeholder engagement	Support
1	Incorporate element contained in para. 8(a), as appropriate into the rolling workplans and associated M&E activities	++	+++++	++	++	++
	Incorporate element contained in para. 8(b), as appropriate into the rolling workplans and associated M&E activities	++		++		
	Incorporate element contained in para. 8(c), as appropriate into the rolling workplans and associated M&E activities			++		++
	Incorporate element contained in para. 8(d), as appropriate into the rolling workplans and associated M&E activities			++		++
	Incorporate element contained in para. 8(e), as appropriate into the rolling workplans and associated M&E activities				++	++
2	Include information on actions taken to implement the TIP in its annual reports	+	+	+	+	+
3	Convene (together with the CTCN) global in-session dialogues at the first session of the SBI each year, with support from secretariat and interested partners and in consultation with the SBI Chair				++	
4	Determine the topics of the global in-session dialogues at its second meeting of the year each year				++	
5	Prepare summary report of the global in-session dialogues for inclusion in its annual report				++	
7	Collaborate with the CTCN for convening regional dialogues in conjunction with the NDE Forums				+	
8	Identify opportunities for collaboration with MDBs, climate financing institutions, and international organizations [...] in exploring synergistic ways to secure funding and other support for implementing the TIP				++	++

Table 4

Mapping elements of the Belém Technology Implementation Programme and functions of the TEC around the themes of the technology framework (non-exclusive)

Decision 18/CMA.7

Decision 1/CP.16		8 (a) Addressing challenges to implementing the technology priorities of developing countries [...] and challenges identified in the first periodic assessment of the Technology Mechanism [...]	8 (b) Strengthening national systems of innovation as well as enabling environments, [...]	8 (c) Providing support to developing countries, including national designated entities, for integrating their climate technology priorities into national policies, programmes and projects	8 (d) Building capacity for the development of project concept notes and the preparation of fundable projects, and fostering matchmaking and partnership-building [...]	8 (e) Mobilizing both financial and non-financial resources to enhance the support provided to the Technology Mechanism [...]
	121 (a) Provide an overview of countries' climate technology needs and analyse policy and technical issues related to climate technology development and transfer for mitigation and adaptation	Innovation; Implementation; Enabling environment & capacity-building	Innovation; Enabling environment & capacity-building	Enabling environment & capacity-building	Enabling environment & capacity-building	
	121 (b) Consider and recommend actions to promote technology development and transfer, in order to accelerate action on mitigation and adaptation	Innovation; Enabling environment & capacity-building	Innovation; Enabling environment & capacity-building	Enabling environment & capacity-building	Enabling environment & capacity-building	
	121 (c) Recommend guidance on policies and programme priorities related to technology development and transfer with special consideration given to the LDCs	Innovation; Implementation; Enabling environment & capacity-building	Innovation; Enabling environment & capacity-building	Enabling environment & capacity-building	Enabling environment & capacity-building	
	121 (d) Promote and facilitate collaboration on the development and transfer of technologies for mitigation and adaptation [...]	Innovation; Implementation; Enabling environment & capacity-building; Collaboration & stakeholder engagement; Support	Innovation; Enabling environment & capacity-building; Collaboration & stakeholder engagement; Support	Enabling environment & capacity-building; Collaboration & stakeholder engagement; Support	Enabling environment & capacity-building; Collaboration & stakeholder engagement; Support	Support
	121 (e) Recommend actions to address the barriers to technology development and transfer [...]	Implementation; Enabling environment & capacity-building	Enabling environment & capacity-building	Enabling environment & capacity-building	Enabling environment & capacity-building	
	121 (f) Seek cooperation with relevant international technology initiatives, stakeholders and organizations, and promote coherence and cooperation across technology activities [...]	Collaboration & stakeholder engagement; Support	Collaboration & stakeholder engagement; Support	Collaboration & stakeholder engagement; Support	Collaboration & stakeholder engagement; Support	Support
	121 (g) Catalyse the development and use of technology road maps or action plans [...]	Implementation; Collaboration & stakeholder engagement	Collaboration & stakeholder engagement	Collaboration & stakeholder engagement	Collaboration & stakeholder engagement	

10. The current TEC rolling workplan for 2023-2027 includes a number of activities that correspond to the mapping in Table 4. Indicative examples from each of the four workstreams of the current TEC rolling workplan include:

(a) Under workstream 1: Activity A.1.1 on national systems of innovation: under this activity, the [TEC prepared a summary for policy makers](#) (2023), together with **case studies** from the set-up and implementation of national systems of innovation across 6 different countries, which also led to the development of key messages and recommendations to Parties (in accordance to TEC functions referred to in para 121(a, b), decision 1/CP.16). Anchored in the ‘innovation theme’ of the technology framework, this work is strongly aligned with element 8(b) of the BTIP.

(b) Under workstream 2: Activity B.1.1 on TNA: under this activity, the TEC conducted an assessment of gaps in TNA guidance in 2023 (function 121(a)), and in response to the identified needs, mobilized the support of UNIDO and UNEP-CCC (function 121(f)) to publish a [TNA sectoral guidebook on renewable energy in 2025](#) (function 121 (c,e,g)). In 2026, with support from the CTCN, the guidebook was used in capacity-building efforts during the Asia NDE Forum (function 121(b)). Anchored in the ‘implementation’ theme of the technology framework, this work is strongly aligned with element 8(a), 8(c) and 8(d) of the BTIP, as well as element 8(e).

(c) Under workstream 3: Activity C.1.1 on water-energy-food systems: the TEC in partnership with FAO (function 121(f)) convened a high-level dialogue on the topic in the context of NDC and NAP implementation, followed by a [publication containing climate technologies in agri-food systems](#) highlighting barriers and enablers for climate technology development and transfer in the sector, informed by country examples (function 121(a)). This work led to the development of key messages and policy recommendations to Parties (function 121(b)). Anchored in ‘enabling environments and capacity-building’ theme of the technology framework, this work is strongly aligned with element 8(a) of the BTIP.

(d) Under workstream 4: Activity D.1.1 on inputs to the SCF on the draft guidance to the Operating Entities of the Financial Mechanism: the TEC in collaboration with the CTCN provides inputs to the SCF (function 121(f)), with a view to strengthen **support** to technology development and transfer in developing countries and enhance linkages between the work of the Technology Mechanism and the Financial Mechanism. Anchored in the ‘support’ theme of the technology framework, this activity is aligned with elements 8(a) and 8(e) of the BTIP.

11. For the full list of TEC activities under its rolling workplans and the resulting outputs, the TT:CLEAR directories on [TEC workplan](#) and [TEC performance](#) may be consulted.

12. Besides specific TEC functions and activities, in an initial discussion on the implementation of the BTIP at TEC 32, the Committee discussed a number of overarching issues that could inform its approach to addressing the mandates arising from the BTIP, in the context of formulating and implementing the next TEC rolling workplan. These include matters relating to communications and outreach, strategic partnerships and stakeholder engagement, coherence and coordination with the CTCN and M&E, underscoring the need to strengthen and better target practices in these areas to support the effective implementation of the BTIP.

IV. Salient points emerging from the mapping that may inform the work of the TEC

13. In analysing the elements of the BTIP against the key themes of the technology framework, it may be underscored that:

(a) The BTIP brings new impetus to all key themes of the technology framework that guide the work of the TEC;

(b) To respond to the BTIP elements, implementation-related activities may be mainstreamed across the TEC rolling workplan, the JWP and M&E as a foundational element;

(c) The BTIP provides a strong focus on reinforcing collaboration and stakeholder engagement including through the organization of global and regional dialogues, and the engagement with NDEs;

(d) Reinforced support, including financial support, is a recurring theme that may inform the work of the TEC, including for strengthening cooperative action on technology development and transfer at different stages of the technology cycle, with a view to achieving a balance between support for mitigation and adaptation.

14. In overlaying the functions of the TEC and the elements of the BTIP, it could be highlighted that:

(a) There is a concentration of opportunities for addressing themes of the technology framework in a synergistic manner by performing the function of promoting and facilitating collaboration on the development and transfer of technologies for mitigation and adaptation between governments, the private sector, nonprofit organizations and academic and research communities;

(b) The TEC could deploy a diverse range of its functions for addressing elements contained in paragraph 8(a-c) of the decision 18/CMA.7. As such, activities formulated around these elements may be led by the Committee as part of its core work, as these areas show the strongest convergence between the TEC functions and elements of the BTIP. Activities related to elements contained in para 8(d-e) of the decision 18/CMA.7 may be implemented in collaboration with interested partners subject to availability of resources.

15. In responding to the mandates arising from the BTIP in its next rolling workplan, the TEC could build on its past experience, while considering adjustments and new approaches to the type of its deliverables.
