

TEC inputs to the SCF on draft guidance to the operating entities of the Financial Mechanism

25 August 2025

Guidelines in providing the inputs:

- “Sub-elements”: Describe the specific area of the proposed input (e.g. Policies relating to access, gender, environment & social safeguards, etc.);
- “Proposed inputs”: Propose the inputs in draft decision text format;
- “To be considered by”: Choose whether the proposed inputs need to be considered: The COP or the CMA;
- “Rationale for the inputs”: Annotate the reason for proposing the inputs, so that the rationale can be clearly understood;
- “Source of information / reference”: Provide reference to the annual reports of the operating entities or decision(s) of the GEF Council / GCF Board.

Annotated inputs for the draft guidance to the Green Climate Fund (GCF)

Elements	Sub-elements	Proposed inputs	To be considered by: The COP or the CMA	Rationale for the inputs	Source of information / reference
Policies	Technology development and transfer	Invites the GCF to consider the recommendations and insights contained in the following reports by the TEC: • Analysis of success stories from implemented Technology Action Plans. • Climate Technologies for Agrifood System Transformation. • Information note and technical paper on artificial intelligence for climate action. • Policy brief on Integrating hard-to-abate industries in the process of preparing and implementing NDCs. • Realising Early Warnings for All. • Summary report on the workshop on linkages between the Technology Mechanism and the Financial Mechanism. • Technology Needs Assessment Guidebook on Renewable Energy. • Joint annual report of the TEC and CTCN for 2024.	COP	By Decision 1/CP.16, the TEC is mandated to: consider and recommend actions to promote technology development and transfer, in order to accelerate action on mitigation and adaptation; and to recommend guidance on policies and programme priorities related to technology development and transfer with special consideration given to the least developed country Parties. By Decision 4/CP.17, modalities of work to perform the TEC’s function with regard to policy recommendations include the provision of recommendations to the COP, or other relevant bodies under the Convention. For this reason the TEC presents to the GCF for its consideration, the TEC and TEC/CTCN joint publications released during the past year that contain insights and recommendations for technology development and transfer.	Annual report of the GCF to the COP for 2025, section IV (4.4.5.) Decisions 1/CP.16; 4/CP.17
Policies	Strengthening technology considerations in strategic planning	Encourages the GCF Board to further strengthen the integration of technologies that contribute to transformational changes envisaged in the Paris Agreement in its strategic planning, building on the GCF Updated Strategic Plan 2024–2027, with enhanced consideration of transformative climate technologies including artificial intelligence (AI) and digital solutions,	CMA	Based on the TEC’s technology assessments and foresight work, explicitly embedding technology roadmaps in strategic planning could enhance project outcomes. The global stocktake highlights the critical role of technology in achieving climate goals, including but not limited to energy-related targets.	Annual report of the GCF to the COP for 2025, section IV (4.1.3., 4.4.5.)

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		supported through national systems of innovation (NSI), that could accelerate achievement of the global stocktake targets.			
Policies	Enhancing innovation support mechanisms	Invites the GCF to consider expanding innovation support mechanisms, including for digital climate technologies and AI applications, supported by NSI, that could accelerate deployment of climate solutions, as identified in Technology Needs Assessments (TNAs) and the TEC's work on AI for climate action.	COP	Drawing from the the TEC's analysis of technology innovation systems and TNAs, additional focus on innovation finance could help bridge the valley of death for promising technologies identified through the Technology Mechanism's work. Drawing from the TEC's analysis of AI and digital innovation systems, these technologies can significantly enhance traditional climate solutions. The TEC's technical paper on AI for climate action highlights opportunities for transformative applications in energy optimization, climate modelling, and early warning systems, among others.	Annual report of the GCF to the COP for 2025, section IV (4.1.3., 4.4.5.)
Policies	Coordinating technology support across funds	Encourages the GCF to enhance its coordination with other international financial institutions on technology development and deployment, with the Technology Mechanism serving as a knowledge broker and technical advisor.	COP	The TEC's overview of the technology landscape suggests that coordinated approaches to technology support could improve efficiency and impact across the climate finance architecture.	Annual report of the GCF to the COP for 2025, section V & VI
Programme priorities		Invites the GCF to consider continued collaboration with the TEC in the implementation of the pending Board Decision B.18/03	COP	TEC has included incubators and accelerators in its current workplan and is expecting to contribute to the implementation of board decision 18/03 that seems to be pending. In letter c) of that decision the GCF Secretariat is requested to develop for consideration by the Board at its twentieth meeting the terms of reference for a request for proposals to support climate technology incubators and accelerators; and in letter d) of that decision the GCF Secretariat is requested to continue collaborating with the TEC and the CTCN, including in the implementation of this decision, to enable support for technology development and transfer for facilitating access to environmentally sound technologies and for collaborative research and development for developing countries.	TEC Rolling Workplan 2023-2027, Activity A.2.2. GCF Board decision B. 18/03
Programme priorities	Scaling technology deployment based on TNAs and other national climate plans	Invites the GCF Secretariat to prioritize technology deployment programmes that respond to priorities identified in TNAs and technology action plans, ensuring alignment with national climate and environmental plans and country-identified technology priorities.	COP	Over 100 TNAs have been conducted identifying priority technologies for climate action. Systematic funding of these identified priorities could accelerate implementation of country-driven technology solutions.	Annual report of the GCF to the COP for 2025, section IV (4.1.3., 4.4.5.)
Programme priorities	Strengthening technology capacity building	Encourages the GCF to continue strengthening technology capacity-building initiatives, particularly through enhanced collaboration with the TEC and the Climate Technology	COP	Based on the CTCN's technical assistance experience in over 100 countries, enhanced coordination between financial and technical support could improve project sustainability and local technology capabilities.	Annual report of the GCF to the COP

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		Centre and Network (CTCN) on technical assistance for climate technologies, including for AI applications.			for 2025, section IV (4.4.9.)
Programme priorities	Supporting just transition through technology	Invites the GCF to consider how technology deployment can support just transition objectives, drawing, among others, on the work of the TEC on the TNA guidebook on renewable energy with aspects of just transition to ensure an inclusive technology transformation.	COP	The TEC's analysis of renewable energy technologies with aspects of just transition highlights the importance of ensuring that technology deployment creates opportunities for affected workers and communities.	Annual report of the GCF to the COP for 2025, section IV (4.1.3., 4.4.5.)
Eligibility criteria	Technology considerations	Suggests the GCF to consider incorporating recommendations from TEC knowledge products as reference points in project assessments, helping to ensure optimal technology choices while respecting country ownership.	COP	The TEC has developed policy briefs that could inform project assessments, helping to maximize climate impact while remaining appropriate to local contexts.	Annual report of the GCF to the COP for 2025, section IV (4.4.5.)
Eligibility criteria	Inclusive technology deployment	Recommends the GCF to strengthen consideration of technology deployment that promotes gender-responsiveness, intergenerational equity, Indigenous leadership, civil society engagement and social inclusion, drawing on the Technology Mechanism's work.	COP/CMA	The Technology Mechanism's work on gender, youth and Indigenous technologies demonstrates that inclusive approaches enhance technology uptake and impact, suggesting value in explicit consideration of these aspects.	Annual report of the GCF to the COP for 2025, section IV (4.4.5.) & VII
Others	Linkages with the Technology Mechanism	Encourages the GCF Board to continue inviting the Chairs of the TEC and of the Advisory Board of the CTCN, and the Director of the CTCN as appropriate, to future meetings of the Board when topics related to the TEC rolling workplan and the CTCN programme of work are raised.	COP	Recalls Decision 14/CP.22 para 3 that 'Encourages the Board of the Green Climate Fund to continue to invite the Chairs of the Technology Executive Committee and the Advisory Board of the Climate Technology Centre and Network to future meetings of the Board of the Green Climate Fund on issues of common interest in order to strengthen the existing linkages between the Technology Mechanism and the Financial Mechanism.	Decision 14/CP.22
Others	Linkages with the Technology Mechanism	Encourages the GCF Board to nominate one of the Co-Chairs, or a member designated by the Co-Chairs, of the GCF Board, to the CTCN Advisory Board, and encourages the GCF Secretariat to continue regularly participating in the meetings of the TEC and the CTCN Advisory Board.	COP	Recalls Decisions 14/CP.18, Annex II and 10/CP.26, Annex on the constitution of the CTCN Advisory Board, with the aim of achieving fair and balanced representation, which shall include: 'One of the Co-Chairs, or a member designated by the Co-Chairs, of the Green Climate Fund Board in their official capacity as a Green Climate Fund representative.	Annual report of the GCF to the COP for 2025, section V Decisions 14/CP.18; 10/CP.26
Others	Strengthening collaboration with the Technology Mechanism	Encourages the GCF to pursue systematic collaboration with the Technology Mechanism throughout the project cycle, from technology identification through TNAs to implementation support from the CTCN, and knowledge sharing through the TEC.	COP/CMA	Enhanced integration of the Technology Mechanism's expertise and networks could improve project design, implementation, and knowledge management, leveraging existing institutional capabilities.	Annual report of the GCF to the COP for 2025, section IV (4.1.3., 4.4.5) & V
Others	Strengthening collaboration with	Invites the GCF to continue facilitating regular interactions between the NDEs and the NDAs in collaboration with the	COP	Decision 3/CP.21 para 12; 10/CP.28	Annual report

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	the Technology Mechanism	CTCN, including at the GCF regional dialogues, and enhance collaboration in a more systematic manner.			of the GCF to the COP for 2025, section V
Others	Technology learning and knowledge management	Invites the GCF to collaborate with the Technology Mechanism on capturing and sharing technology performance data and lessons learned, contributing to the TEC's knowledge products and global technology learning.	COP	The TEC's role in technology knowledge synthesis could be enhanced through systematic sharing of GCF project technology data, accelerating global learning curves.	Annual report of the GCF to the COP for 2025, section V

Annotated inputs for the draft guidance to the Global Environment Facility (GEF)

Elements	Sub-elements	Proposed inputs	Draft guidance under: The COP or the CMA	Rationale for the inputs	Source of information / reference
Policies	Technology development and transfer	Invites the GEF to consider the recommendations and insights contained in the following reports by the TEC: • Analysis of success stories from implemented Technology Action Plans. • Climate Technologies for Agrifood System Transformation. • Information note and technical paper on artificial intelligence for climate action. • Policy brief on Integrating hard-to-abate industries in the process of preparing and implementing NDCs. • Realising Early Warnings for All. • Summary report on the workshop on linkages between the Technology Mechanism and the Financial Mechanism. • Technology Needs Assessment Guidebook on Renewable Energy. • Joint annual report of the TEC and CTCN for 2024.	COP	By Decision 1/CP.16, the TEC is mandated to: consider and recommend actions to promote technology development and transfer, in order to accelerate action on mitigation and adaptation; and to recommend guidance on policies and programme priorities related to technology development and transfer with special consideration given to the least developed country Parties. By Decision 4/CP.17, modalities of work to perform the TEC's function with regard to policy recommendations include the provision of recommendations to the COP, or other relevant bodies under the Convention. For this reason the TEC presents to the GCF for its consideration, the TEC and TEC/CTCN joint publications released during the past year that contain insights and recommendations for technology development and transfer.	Annual report of the GEF to the COP for 2025, Part III, 5 Decisions 1/CP.16; 4/CP.17
Policies	Aligning technology investments with GST outcomes	Encourages the GEF to further strengthen the integration of technologies that contribute to transformational changes envisaged in the Paris Agreement in its strategic programming, with enhanced consideration of transformative climate technologies including artificial intelligence (AI) and digital solutions, supported through national systems of innovation (NSI), that could accelerate achievement of the global stocktake targets.	CMA	Based on the TEC's technology assessments and foresight work, explicitly embedding technology roadmaps in strategic planning could enhance project outcomes. The global stocktake highlights the critical role of technology in achieving climate goals, including but not limited to energy-related targets.	Annual report of the GEF to the COP for 2025, Part III, 5
Policies	Enhancing technology transfer mechanisms	Invites the GEF to strengthen collaboration with the Technology Mechanism on technology transfer initiatives, including transfer of AI and digital climate technologies, leveraging CTCN's networks and TEC's policy guidance.	COP	The Technology Mechanism's experience in facilitating technology transfer could complement GEF's financial support, creating more effective technology transfer partnerships.	Annual report of the GEF to the COP for 2025, Part III, 5
Policies	Coordinating technology support across funds	Recommends the GEF to enhance coordination with other international financial institutions on technology development and deployment, with the Technology Mechanism serving as a knowledge broker and technical advisor.	COP	The TEC's overview of the technology landscape suggests that coordinated approaches to technology support could improve efficiency and impact across the climate finance architecture.	Annual report of the GEF to the COP for 2025, Part II, 5 & Part III, 5
Programme priorities	Linkages with the	Welcomes the consultation of the GEF with the Technology Mechanism through the UNFCCC secretariat	COP	The COP invited the GEF, in the context of programming for the climate change focal area under its ninth replenishment, to	Annual report

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	Technology Mechanism	and encourages the GEF Secretariat to consider inputs provided by the TEC and the CTCN on technology-related elements of the programming for the climate change focal area under the ninth replenishment of the GEF.		consider, inter alia, consulting with the TEC and the CTCN on technology-related elements of the programming.	of the GEF to the COP for 2025, Part II, 1 Decision 3/CP.29, para 2 (f)
Programme priorities	Scaling technology deployment based on TNAs and other national climate plans	Recommends the GEF to consider prioritizing technology deployment programmes that respond to priorities identified in Technology Needs Assessments (TNAs) and technology action plans, ensuring alignment with national climate and environmental plans and country-identified technology priorities.	COP	Over 100 TNAs have been conducted identifying priority technologies for climate action. Systematic funding of these identified priorities could accelerate implementation of country-driven technology solutions.	Annual report of the GEF to the COP for 2025, Part III, 5
Programme priorities	Supporting technology innovation systems	Invites the GEF to consider strengthening support for NSI and regional technology innovation systems, drawing on TEC's analytical work on enabling environments for technology development and transfer.	CMA	The TEC's work on innovation systems highlights the importance of systemic approaches to technology development, suggesting value in supporting innovation ecosystems.	Annual report of the GEF to the COP for 2025, Part III, 5
Programme priorities	Enhancing private sector technology engagement	Recommends the GEF to strengthen private sector engagement on technology deployment, utilizing the Technology Mechanism's private sector networks and expertise to enhance technology development, deployment and commercialization.	COP	The TEC's engagement with private sector stakeholders provides insights into barriers and opportunities for technology deployment that could inform GEF programming.	Annual report of the GEF to the COP for 2025, Part III, 3 & 5
Programme priorities	Technology-enhanced nature-based solutions	Encourages the GEF to explore opportunities identified by the Technology Mechanism for integrating technologies with nature-based solutions, enhancing effectiveness and scalability, including through exploring synergies with the GEF's support to other MEAs.	COP	The TEC's work on adaptation technologies includes assessments of technology applications for ecosystem-based approaches, oceans and water-energy-food nexus, offering insights for programme design.	Annual report of the GEF to the COP for 2025, Part III, 5
Eligibility criteria	Technology considerations	Suggests the GEF to consider incorporating recommendations from TEC knowledge products as reference points in project assessments, helping to ensure optimal technology choices while respecting country ownership.	COP	The TEC has developed policy briefs that could inform project assessments, helping to maximize climate impact while remaining appropriate to local contexts.	Annual report of the GEF to the COP for 2025, Part III, 5
Eligibility criteria	Inclusive technology deployment	Recommends the GEF to strengthen consideration of technology deployment that promotes gender-responsiveness, intergenerational equity, Indigenous leadership, civil society engagement and social inclusion, drawing on the Technology Mechanism's work.	COP/CMA	The Technology Mechanism's work on gender, youth and Indigenous technologies demonstrates that inclusive approaches enhance technology uptake and impact, suggesting value in explicit consideration of these aspects.	Annual report of the GEF to the COP for 2025, Part III, 5
Others	Systematic Technology	Encourages the GEF to pursue formal collaboration arrangements with the Technology Mechanism, including	COP/CMA	Systematic collaboration could leverage the complementary strengths of financial and technology mechanisms for enhanced impact.	Annual report of the GEF to the COP

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	Mechanism collaboration	joint work planning, shared assessments, and coordinated country support.			for 2025, Part I, 3
Others	Contributing to technology knowledge products	Invites the GEF to share technology performance data and lessons with the Technology Mechanism, contributing to TEC’s synthesis work and global technology knowledge base.	COP	The TEC’s mandate to provide technology policy recommendations would benefit from systematic access to GEF portfolio technology data and lessons.	Annual report Of the GEF to the COP for 2025, Part I, 3