

Technology Development and Transfer under the UNFCCC

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United Nations
Climate Change

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Evolution of technology development and transfer under the Convention and the Paris Agreement



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UNITED NATIONS CONFERENCE ON
ENVIRONMENT AND DEVELOPMENT

Rio de Janeiro 3 – 14 June 1992



1992 - Earth Summit, Rio | UNFCCC | Article 4 of the Convention

“All Parties ... shall promote and cooperate in the development, application and diffusion, including transfer, of technologies, practices and processes that control, reduce or prevent anthropogenic emissions of greenhouse gases...”

Article 4.1(c)

“The developed country Parties ... shall take all practicable steps to promote, facilitate and finance, as appropriate, the transfer of, or access to, environmentally sound technologies and know-how to other Parties, particularly developing country Parties, to enable them to implement the provisions of the Convention.” Article 4.5



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Technology under the UNFCCC - Milestones

2001 – COP 7, Marrakech

- Technology Transfer Framework, comprising five elements: (i) technology needs assessments (TNAs), (ii) technology information, (iii) enabling environments, (iv) capacity-building, (v) mechanisms for technology transfer
- Expert Group on Technology Transfer (EGTT)

2007 – COP 13, Bali

- Recommendations for enhancing Technology Transfer Framework
- Emerged additional four themes under the mechanisms for technology transfer: (1) innovative financing, (2) international cooperation, (3) endogenous technology development, (4) collaborative R&D
- Invitation to Parties in a position to do so to identify and designate their national entity for the development and transfer of technologies (NDEs)

2008 – COP 14, Poznan

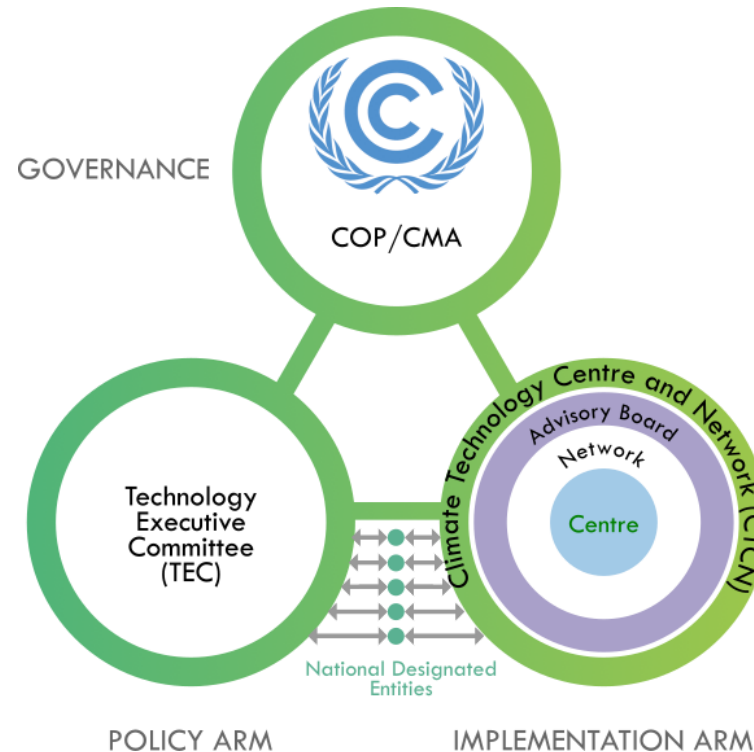
- Poznan Strategic Programme on Technology Transfer, funded by the Global Environment Facility (GEF), has supported: the undertaking of TNAs, piloted priority technology projects, established regional climate technology centers, and disseminated good practices and lesson learned



Technology under the UNFCCC - Milestones

2010 – COP 16, Cancun

The **Technology Mechanism** was established, consisted of the Technology Executive Committee and Climate Technology Centre and Network, to enhance action on climate technology development and transfer



Technology under the Paris Agreement

2015 – COP 21, Paris | Paris Agreement | Article 10 on technology development and transfer

- *Long-term vision on technology development and transfer to support mitigation and adaptation;*
- *Parties' strengthening cooperative action on technology development and transfer*
- *Technology Mechanism serving the Agreement*
- *Establishment of a technology framework to provide overarching guidance to the work of the Technology Mechanism*
- *Acceleration, encouragement and enabling innovation, in particular early stages of technology, and related support*
- *Support for Article 10, and a reference to the global stocktake*



Technology under the Paris Agreement - Milestones

2018 – COP 24, Katowice

Adoption of the Technology Framework under the Paris Agreement

- Purpose: Overarching guidance to the work of the TEC and the CTCN in support of the Paris Agreement
- Principles: Coherence, inclusiveness, results-oriented approach, transformational approach and transparency
- Key themes: Innovation; Implementation ; Enabling environment and capacity-building; Collaboration and stakeholder engagement; Support

2023 – COP 28, Dubai | First Global Stocktake under the Paris Agreement

Establishment of the Technology Implementation Programme

- Supported by, inter alia, the operating entities of the Financial Mechanism
- To strengthen support for the implementation of technology priorities identified by developing countries
- To address challenges identified in the first periodic assessment of the Technology Mechanism



Negotiation outcomes of COP 29 and SBI 62 and the road to Belém



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Outcomes of Baku & Bonn Climate Change Conferences (Nov 2024/Jun 2025)

Review of the functions of the Climate Technology Centre

Decision 10/CP.29 (Nov 2024)

Para. 3: Decides to conduct a review of the functions and decide whether to extend the term of the Climate Technology Centre at COP 30 (Nov 2025).

Para. 4: Requests SBI 62 (June 2025) to initiate the review with a view to recommending a draft decision to COP 30 (Nov 2025).

Outcomes of SBI 62 (Jun 2025)

Discussion initiated. Parties to continue discussion at SBI 63, based on the text available on UNFCCC website.

Technology Implementation Programme

Decision 18/CMA.6 (Nov 2024)

by Parties at CMCMA 6 decided to launch a process for elaborating the TIP and requested SBI 62 to consider this matter based on deliberations A 6, contained in a draft negotiating text, with a view to recommending a draft decision for consideration and adoption at CMA 7.

Outcomes of SBI 62 (Jun 2025)

Rule 16 - Item to be considered at the next session

Linkages between the Technology Mechanism & the Financial Mechanism

At SBI 60 an in-session workshop was organized to take stock of the linkages between the Technology Mechanism and the Financial Mechanism taking into account the views expressed in the submissions, and a discussion was initiated on the submissions, synthesis report and workshop at SBI 61, with a view to recommending a draft decision thereon for consideration and adoption at COP 29.

Outcomes of SBI 62 (Jun 2025)

Parties to continue consideration at SBI 63. Based on the text available on UNFCCC website.

The agenda item “Alignment between processes pertaining to the review of the CTCN and the periodic assessment of the Technology Mechanism” was deferred to SBI 64 in June 2026.



Technology at the Belém Climate Change Conference (COP30 | CMA 7 | SB 63)

Agenda item – Belém Climate Change Conference in 2025 (Nov 2025)

SBI/CMA	Technology Implementation Programme
SBI/COP/CMA	Review of the functions of the Climate Technology Centre
SBI/COP	Linkages between the Technology Mechanism and the Financial Mechanism
SBI/SBSTA/COP/CMA	Joint annual report TEC and CTCN for 2025



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Thank you



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