

Technology Development and Transfer under the UNFCCC

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United Nations
Climate Change

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Technology under the United Nations Framework Convention on Climate Change



UNITED NATIONS CONFERENCE ON
ENVIRONMENT AND DEVELOPMENT

Rio de Janeiro 3–14 June 1992



1992 - Rio Earth Summit | 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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Milestones on climate technology under the UNFCCC

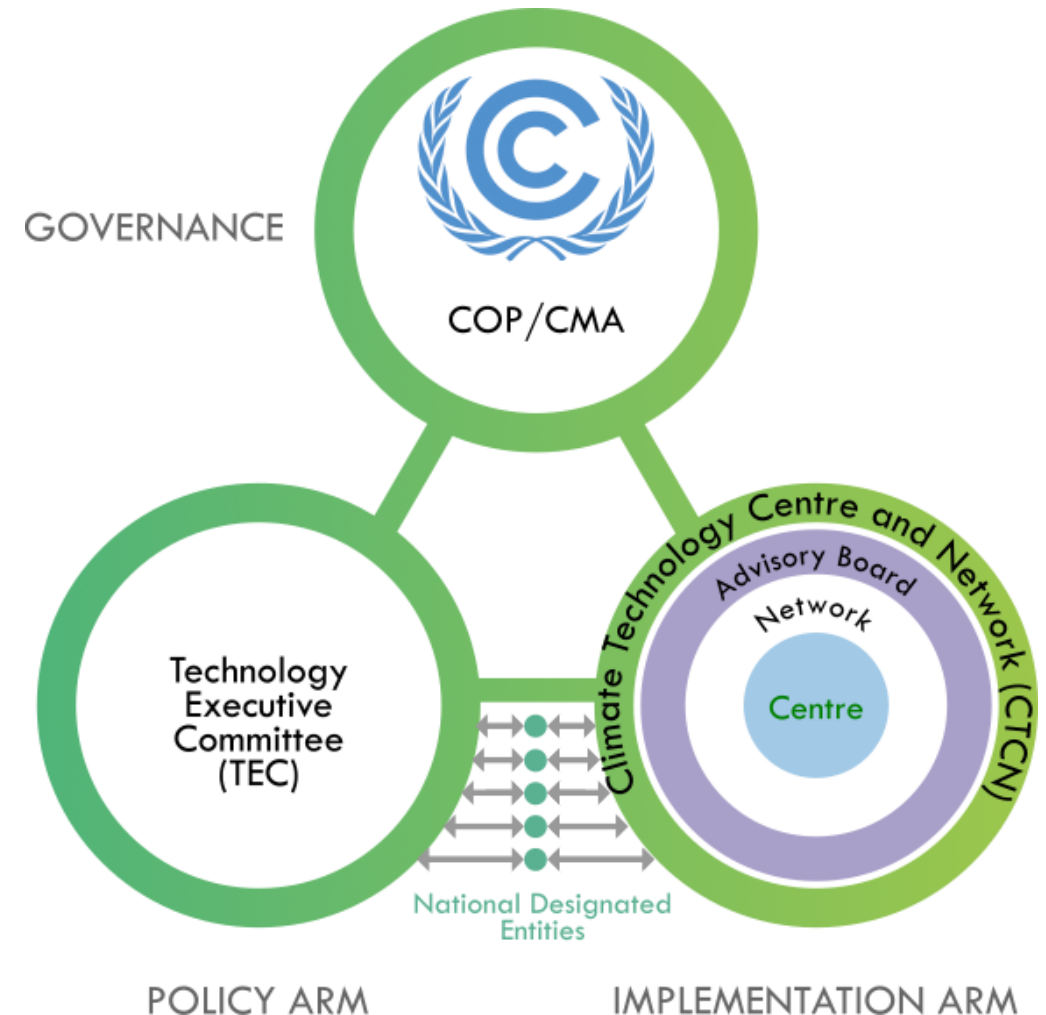
2001: Technology Transfer Framework

2007: Enhanced Technology Transfer Framework and NDEs

2008: Poznan Strategic Programme on Technology Transfer

2010: Technology Mechanism (TEC & CTCN)

Technology Mechanism



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Technology under the Paris Agreement

2015 – COP 21, Paris | Paris Agreement | Article 10

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- Long-term vision on technology development and transfer
 - Parties' strengthening cooperative action on technology development and transfer
 - Technology Mechanism to serve the Paris Agreement
 - Acceleration, encouragement and enabling innovation, in particular early stages of technology, and related support



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Milestones on climate technology under the UNFCCC

2018: Technology Framework

2023: 1st Global Stocktake under the Paris Agreement, including on technology development and transfer

2023: Technology Mechanism Initiative on AI for Climate Action

2025: Revised functions of the CTCN (as of 2027)

2025: Belém Technology Implementation Programme



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Belém Technology Implementation Programme



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COP 30
BRASIL
AMAZÔNIA
BELÉM 2025

2025 – COP 30, Belém | Adoption of the Belém Technology Implementation Programme

- Addressing challenges encountered by developing countries at different stages of the technology cycle;
- Strengthening national systems of innovation and enabling environments;
- Supporting efforts to integrate climate-technology priorities into policies and programmes;
- Enhancing capacities to prepare and secure funding for climate-technology projects and fostering effective matchmaking to accelerate project implementation;
- Mobilizing both financial and non-financial resources to enhance support to the Technology Mechanism.



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Technology in the UNFCCC intergovernmental process: 2025 and 2026

Convention Art. 4.1 (c) and 4.5	Paris Agreement Art. 10		Agenda Item	COP30/CMA8 (Nov 2025 and SB 64 (Jun 2026)	COP31/CMA9/SB65 (Nov 2026)
Technology Transfer Framework	Technology Framework	1	TEC-CTCN Joint Annual Report (JAR)	SB64 recommended draft decisions on JAR 2025.	Adopt draft decisions on JAR 2025; consider JAR 2026, including reporting on the BTIP; adopt decisions on JAR 2026.
1 2 Technology Mechanism (TM)		2	TM-Financial Mechanism Linkages	SB64 recommended draft decision.	Adopt draft decision.
Technology Executive Committee (TEC)			Host of the CTC	COP30 launched host selection; SB64 recommended UNEP as host; started draft MOU.	Adopt draft decisions on the CTC hosting, including a MOU between COP-CMA and UNEP.
3 Climate Technology Centre and Network (CTCN)		3			
4 Independent Review of the CTCN (CTCN Review)	5 Periodic Assessment of the Technology Mechanism (PATM)	4	3 rd CTCN Review		Consider report on the review and provide guidance.
		5	2 nd PATM	SB64 initiated the assessment.	
6 Poznan Strategic Programme on Technology Transfer (PSP)	1 Belém Technology Implementation Programme (BTIP)	6	PSP	SB64 deferred consideration to SB65.	Consider PSP evaluation report; provide guidance on the way forward.



Work of the UN Climate Change Secretariat on Technology

Intergovernmental process support

Negotiations, pre- and post-session documents, submissions, synthesis, reviews

<https://unfccc.int/ttclear/negotiations>

Technology Mechanism support

TEC, collaboration with CTCN and partners, TM Initiative on AI

<https://unfccc.int/ttclear/tec>

Technology-related planning/reporting tools and data

TNA repository, synthesis reports on NDCs and BTRs

<https://unfccc.int/ttclear/tna>

Knowledge management

TT:CLEAR

Cross-cutting

Engagement in other UN processes, communications and outreach etc.



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<https://unfccc.int/ttclear>



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