

Technology Development and Transfer under the UNFCCC and outcomes of COP 30 in Belém, Brazil



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



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Technology under UNFCCC (Rio 1992)

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



Paris Agreement (2015)

Article 10: 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

Article 13: Enhanced transparency framework for action & support

Article 14: Global stocktake



Paris Agreement Technology Framework (2018)



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



Negotiation outcomes of COP 30



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Outcome of the Belem Climate Change Conference 2025 (COP 30)

Joint annual report of the TEC and the CTCN

Continue consideration of the matter at SBI 64 (June 2026)

Linkages between the Technology Mechanism and the Financial Mechanism

Continue consideration of the matter at SBI 64 (June 2026)



Outcome of the Belem Climate Change Conference 2025 (COP 30)

Review of the functions of the Climate Technology Centre

Decision -/CP.30 (Nov 2025)

Request the secretariat to launch a process for a new host

New revised functions of the CTC, take effect from 2027

Some aspects include: enhance capacity-building support, NSI, developing Indigenous and endogenous tech, facilitate Network for partnerships, matchmaking to securing funding for implementing technologies needed.

Launched a new process for the host in 2026

Technology implementation programme (TIP)

Decision -/CMA.7 (Nov 2025)

Support implementation of NDC, NAPs, LT-LEDS

Enhance the work under the Technology Mechanism and complement ongoing related work on climate technologies for both mitigation and adaptation

Global in-session dialogue starting in 2027

Submission on topics by 1 July 2026

Convene regional dialogues in conjunction with the NDE forums under the selected global topic



Outcomes of the Belem Climate Change Conference 2025

Technology Mechanism for Impact: Bridging Policy, Innovation, and Action for Climate Solutions in LDCs and SIDS (10 November)

Hosted by the TEC and CTCN

The event showcased how innovation, policy, and partnerships are driving low-emission, climate-resilient development across SIDS and LDCs

Countries shared how tailored technological solutions are already turning ambition into measurable impact — from Senegal’s solar innovation to the Maldives’ freshwater resilience, Belize’s early warning systems, and Antigua & Barbuda’s national technology planning.



AI for Climate Action Award Ceremony (10 November)

Hosted by the TEC in partnership with the CTCN and KOICA, and in collaboration with Brazil and Enterprise Neurosystem

The Award Ceremony recognised innovative projects using artificial intelligence to advance climate mitigation and adaptation, particularly in LDCs and SIDS.

The event celebrated Award Winner **Alisa Luangrath** and her team for their AI-based smart farming and irrigation system that strengthens climate resilience in the Lao People’s Democratic Republic.



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Outcomes of the Belem Climate Change Conference 2025

Technology Day on Transformative Industry (12 &13 November)

Hosted by TEC, UNIDO, Japan

The two-part event featured a high-level session with policymakers and industry leaders focused on proven technologies and policy options, followed by a session dedicated to fostering partnerships and collaboration to accelerate industrial decarbonization.

The event informed Parties and stakeholders about available technology, policy, and support options for hard-to-abate industries as they develop and implement their NDCs and long-term low-emission development strategies (LTLEDS).



Driving Global Uptake of Established Climate Technologies and Solutions for Buildings (13 November)

Hosted by GlobalABC, UNEP-CCC and MIT

Objective of event was to spotlight the vast range of market-ready, economically viable, and scalable solutions that already exist to decarbonise the buildings sector — and the enabling environments and public policies that can accelerate their deployment

TEC chair provided scene-setting presentation: Launch of the TEC policy brief on Driving Global Uptake of Established Climate Technologies and Solutions for Buildings



Outcomes of the Belem Climate Change Conference 2025

Masterclass on AI for Energy Systems (15 November)

Hosted by TEC, PCCB, CTCN, and KOICA

The event raised awareness on the opportunities, risks and challenges of using AI for low-emission, climate-resilient energy systems,

Enhanced capacities through concrete energy-sector case studies, and facilitated the exchange of insights, views and networking among peers and a diverse group of participants.

Implementing NDCs 3.0 through Technology Needs Assessments & Technology Action Plans (19 November)

Hosted by UNEP-CCC and UN Climate Change

This event showcased the real-world impact of TNAs and TAPs in developing countries, highlighting how TNAs are being integrated into third-generation NDCs to support technology transfer, strengthen stakeholder engagement, and align national policies with climate goals, while also exploring how these tools can help unlock climate finance and accelerate low-carbon, climate-resilient development.



Thank you



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