



The 2026 Climate Technology Progress Report

33rd Meeting of the
UNFCCC Technology Executive Committee
September 2025
Bonn, Germany
Sara Trærup sara.traerup@un.org

The 2026 Climate Technology Progress Report - context

- The ocean is receiving growing attention on the global climate agenda.
- Oceans are essential for: Biodiversity and ecosystem health, Food security and livelihoods, Cultural values and human well-being, Economic development and coastal resilience
- The ocean is a critical climate regulator:
 - Absorbs ~30% of global CO₂ emissions
 - Takes up >90% of excess heat from climate change
- Ocean health and climate stability are increasingly interconnected.
- Climate change is altering ocean chemistry and circulation, reducing resilience and potentially weakening the ocean carbon sink.
 - Key stressors include: Ocean warming, Acidification, Deoxygenation, Shifting nutrient patterns
- **TEC priority area:** Innovative Ocean Climate Solutions (2023-2027 workplan)

The 2026 Climate Technology Progress Report - focus

The report recognizes the dual role of oceans:

- Climate mitigation through carbon uptake and storage
- Climate adaptation and resilience through healthy marine and coastal ecosystems

Key Questions

How are climate technologies advancing across key ocean-related domains?

What progress has been achieved, which factors are enabling or constraining development, and what pathways can accelerate the deployment, accessibility, and implementation of these technologies across different national and regional contexts?

Focus technology areas:

Ocean-based climate technologies that directly safeguard or enhance ocean carbon uptake, long-term carbon storage, stability of the ocean carbon sink under climate change:

- Protect & restore blue carbon ecosystems
- Strengthen ocean observation, monitoring & modelling
- Evaluate emerging ocean-based CDR technologies

The 2026 Climate Technology Progress Report - structure

Chapter 1: Introduction, setting the scene, Sara Trærup (UNEP-CCC), Marie-Blanche Ting (UNEP-CCC), Christopher Pearce (National Oceanography Centre, NOC)

Part I (Global focus)

Chapter 2: State of the Ocean Carbon Sink - Trends, Variability, Mechanisms and Future Change, Nadine Mengis (GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany) and Judith Ziegler (GEOMAR Helmholtz Centre for Ocean Research Kiel)

Chapter 3: Technologies for monitoring, managing, and enhancing the ocean carbon sink. Christopher Pearce (National Oceanography Centre, NOC), Bryce Robert Dam (Helmholtz-Zentrum hereon GmbH)

Chapter 4: Policy and Governance Implications, Francis X Johnson (Stockholm Environment Institute, SEI), Romany M. Webb, Sabin (Center for Climate Change Law, Columbia Law School)

Part II (Regional focus)

Chapter 5: Regional Focus - Application of ocean climate technologies in SIDS, Michelle DeFreese (South Pacific Community, SPC), Laura Ramajo (Center for Climate and Resilience Research)

The 2026 Climate Technology Progress Report - timeline

CTPR 2026 Timeline (update)	
Start Date	Milestone/ Activity
Thursday, March 12, 2026	First Meeting with the Lead Authors
Monday, April 20, 2026	Teams Composition Finalized
Friday, April 3, 2026	Annotated Outline/ Zero Draft
Thursday, April 9, 2026	Second Steering Committee Meeting/ Presentation of chapter outlines
Monday, May 11, 2026	Alignment workshop
Thursday, June 25, 2026	1. Draft
Friday, June 26, 2026	1. External review, send out
Friday, July 10, 2026	1. External review, receive reviews
Thursday, July 2, 2026	Third Steering Committee Meeting
Friday, August 21st, 2026	2. Draft
Tuesday, August 25, 2026	Fourth Steering Committee Meeting/ Review comments
Friday, August 28, 2026	final review to authors (internal review)
Friday, September 4, 2026	Final Draft
14 to 25 Sept	Copy Editing
28/09/2026 to 02/10/2026	Internal final approval (Steering Committee, CTCN, UNFCCC, UNEP)
Tuesday, September 29, 2026	Fifth and final Steering committee meeting
05/10/2026 to 19/10/2025	Layout
Thursday, October 29, 2026	Launch event
Monday, November 9, 2026	COP 31 Turkiye Antalya



Outreach & Communications Plans CTPR 2026



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REPORT

The Climate Technology Progress Report 2025

19 October 2025



The 2025 Climate Technology Progress Report (CTPR): ‘*Advancing biobased technologies in the bioeconomy*’ examines how advancing the climate and nature agenda through the integration of technology and sustainable biobased solutions can offer a comprehensive and cost-effective pathway to achieving both objectives simultaneously.

The report is intended as a resource for policymakers, practitioners, and stakeholders seeking to advance integrated, effective, and equitable climate and nature action in the lead-up to COP 30 and beyond.

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The Climate Technology Progress Report 2025

 Full Report

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Other publication

The climate technology progress report 2025

Advancing biobased technologies in the bioeconomy

Start reading ▾

This report explores the role of the bioeconomy in addressing climate change, including both mitigation and adaptation, with a particular focus on the biobased technologies that are most relevant in this context. It examines the progress being made in scaling up the availability and use of these technologies, highlighting both

Photo: Quang Nguyen Vinh / Unsplash

Francis X. Johnson Stefan Böhner

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by GILBERT KIRCH

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India is well positioned to advance biobased climate tech, says Sara Trærup [Interview]

Manish Chandra Mishra 22 Oct 2025, 14h 05m Hrs





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Role of TEC and CTCN

1. Representation in the Steering Committee (SC), which

- guides the report production by selecting themes and lead authors
- reviews and signs off on the report chapters and the executive summary
- provides overall strategic advice.
- meets regularly (ca. every 8 weeks, online)

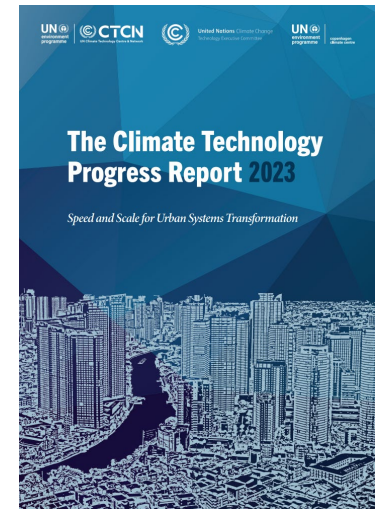
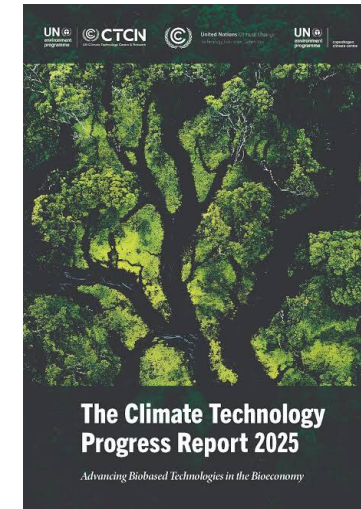
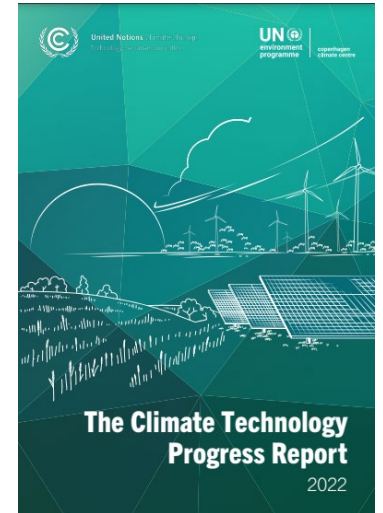
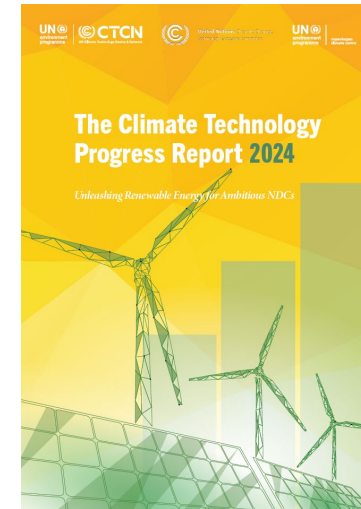
2. SC Members are invited to provide reviews of (parts of) the report.

3. Jointly launch and present the report at different occasions

4. Co-sign foreword

5. Co-branding

In 2024, the TEC prepared key messages from the 2023 and 2024 CTPR to the COP through the JAR



Thank you

2026 Steering committee members

Ambrosio Yobánolo del Real (Agencia Sustentabilidad Y Cambio Climático), Ambuj Sagar (Indian Institute of Technology), Anne Olhoff (UNEP-CCC), Elisabeth Gilmore (Carlton University), Emily Caroline Costa Silva (CTCN AB), Halima Bawa (CTCN AB), Heleen de Coninck (Eindhoven University of Technology), Julia Kempny (CTCN), Pedro Ivo Ferraz da Silva (COP30 Presidency, Brazil), Taeyoon Kim (UNFCCC), Kaija Veskioja (TEC), Hiroko Nakamura (TEC), Ali Shareef (TEC), Alan Hernández (YOUNGO)

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