Framework Convention on Climate Change

TEC/2024/29/11

Technology Executive Committee

02 September 2024

Twenty-nineth meeting

17–20 September 2024 (20 September TEC-CTCN Advisory Board Joint session)

Concept note of water-energy-food systems event at COP 29

Cover note

I. Background

1. As per activity C.1.1 of the TEC's rolling workplan for 2023–2027, the TEC is to analyse knowledge gaps on the water-energy-food nexus and identify relevant adaptation technologies, including indigenous, innovative and digital technologies (e.g. early warning systems), to strengthen adaptation planning (NAPs) and NDC ambitions in the agriculture sector.

2. At the TEC 28, the TEC requested the open-ended activity group to prepare a concept note for a COP 29 event on this topic and present it at the TEC 29 meeting.

II. Scope of the note

3. The annex to this note contains the draft concept note for COP 29 event "Moving forward with NDC acceleration in agrifood systems: Climate Technology Uptake".

III. Expected action by the Technology Executive Committee

4. The TEC will be invited to provide guidance to the open-ended activity-group to finalize arrangements for the COP 29 event.

Annex

High-level Ministerial Dialogue

"Moving forward with NDC acceleration in agrifood systems: Climate Technology Uptake"

Venue (tbc), Baku, Azerbaijan
Date, and time TBC

Draft concept note

I. Background

1. The global community, as highlighted through the COP28 UAE Declaration on sustainable agriculture, resilient food systems and climate action, recognizes the critical role that agrifood systems have to play for effective climate action. The Paris Agreement supports these efforts by promoting climate-resilient development based on low greenhouse gas emissions without compromising food security, and encourages the transfer and dissemination of technology as essential for achieving these goals. However, uptake of climate technologies for climate action in agrifood systems is still sluggish. What are the real reasons for this?

2. The joint report prepared by FAO and UNFCCC Technology Executive Committee seeks to fill that knowledge gap by exploring how climate technologies can support the transformation needed to sustainably feed the planet and people in the years to come, while supporting equitable growth. The report emphasizes the need for inclusive and transparent integration of agriculture and food systems into national climate strategies, as called for by the UAE COP28 Declaration. It also highlights the importance of modern and traditional technologies in enhancing the sustainability and resilience of agrifood systems, especially in developing countries where access to modern technology remains.

3. The first Global Stocktake highlights the crucial role of technology in advancing climate action under the Paris Agreement. It recognizes the Technology Mechanism's progress, especially through its 2023–2027 joint work programme focusing on technology development, transfer, and capacity-building. Persistent challenges in global technology adoption are identified, urging enhanced cooperation with the private sector to scale up existing technologies and foster innovation. The necessity of predictable financial support and capacity-building for developing countries is addressed. Furthermore, it proposes a new Technology Implementation Programme to strengthen national priorities, aiming for sustainable development aligned with climate goals.

4. In their joint letter issued in March 2024, the COP Presidencies of the UAE (COP 28), Azerbaijan (COP 29), and Brazil (COP 30) underscored the urgent need to increase ambition for the upcoming round of nationally determined contributions (NDCs), that are the basis for countries to achieve their climate goals. The letter stresses that "ambition and implementation can come from all parts of the world" and calls for the early submission of high-ambition NDCs. These NDCs have to clearly include and aim to identify viable climate technologies that can support countries' implementation strategies for climate action. Aligning climate action with agrifood systems is vital for a sustainable future, requiring collaborative efforts to deploy and transfer effective climate technologies.

II. Objectives

5. The high-level event will convene a diverse set of ministers, local and regional leaders, financial institutions, and non-government stakeholders to agree on a suite of multilevel, Paris-aligned actions for cooperation in the UNFCCC space, focused on joint policy and finance for sustainable climate technology uptake in agrifood systems.

6. Climate technologies are to play a critical role in transforming agrifood systems, enhancing resilience and inclusiveness for small-scale farmers and vulnerable groups amidst climate challenges. These technologies have to be further integrated into national climate strategies in this new round of NDC updates, while promoting social equity to achieve sustainable development goals. The joint FAO-TEC report addresses the critical need for effective climate technologies within agrifood systems to meet the challenges of feeding a growing global population sustainably by 2050, amidst pressures from climate change and resource scarcity.

III. Format

7. High level ministerial dialogue with local and regional leaders, financial institutions, and non-government stakeholders.

8. The event will be a joint event organized by FAO, TEC, with contribution from CTCN and the COP29 Presidency and supported by a moderator. It will be structured around 4 segments:

(a) Opening;

(b) Policy setting with Ministers;

(c) Dialogue segment around institutions, capacity and finance and

(d) Closing.

IV. Draft agenda

10 min	**Welcoming remarks**	COP 29 Presidency
		FAO Senior official
		UNFCCC Senior Official
1 min	**Video**	
25 min	**Opening**	
	Pointers to the recommendations of the report - Guiding question: How can the Governments stronger support the NDC implementation through climate technology development and transfer?	Ministers from developed countries
		Ministers from developing countries
15 min	**Keynote presentation**	
	Climate technologies for climate action in agrifood systems: what does it take to make the leap?	FAO and TEC (joint)
30 min	**Dialogue segment [policy, experiences from the field, bottlenecks, finance]**	
	Linking to the recommendations of the report, guiding questions related to how can institutions, capacities and financing be strengthened to increase climate technology uptake in agrifood systems and strengthen country implementation? What role for private sector, gender and science?	Regional representative from developing country
		Stakeholders from farm sector
		Stakeholders from finance sector

		Representative on gender
		Stakeholders from private sector
		Representative from science sector
8 min	**Closing remarks**	TEC Chair
		CTCN Chair