

#AI4ClimateAction and Water-Energy-Food Systems

LAC NDE Forum | 19 - 22 May 2026 | San Ignacio, Belize



United Nations Climate Change
Technology Executive Committee

Pedro Ivo Ferraz da Silva
Chair of the UNFCCC Technology Executive Committee

#AI4ClimateAction Initiative: Milestones

Jun 2023	Launch of the UNFCCC Technology Mechanism AI for Climate Action Initiative
Nov 2023 (COP 28)	COP and CMA decisions on AI for Climate Action & Ministerial Event
Nov 2024 (COP 29)	<ul style="list-style-type: none">- First TEC knowledge product on AI for Climate Action<ul style="list-style-type: none">- AI Innovation Grand Challenge Award 2024- UNFCCC-KOICA Climate Future Partnership
July 2025	TEC technical paper on AI for climate action
Oct 2025	TEC AI for Climate Action Forum 2025 (Virtual & Dar es Salaam, Tanzania)
Nov 2025 (COP 30)	UNFCCC Technology Mechanism AI for Climate Action Award 2025



AI under the UNFCCC

► Objectives of the #AI4ClimateAction Initiative

- Explore opportunities of AI for advancing & scaling up transformative climate action in developing countries, with a focus on LDCs and SIDS
- Address challenges & risks posed by AI, including energy consumption, data security & digital divide

► **In 2023, Parties to the UNFCCC and the Paris Agreement requested the TEC and the CTCN to implement the #AI4ClimateAction Initiative and to enhance awareness of AI and its potential role in accomplishing climate technology priorities identified by developing countries (9/CP.28, 1/CMA.5 and 14/CMA.5).**



United Nations Climate Change
Technology Executive Committee



AI for Water-Energy-Food Systems in TEC Knowledge Products



In 2024, the TEC, in collaboration with the FAO, analyzed knowledge gaps and identified relevant climate technologies to promote transforming the agrifood systems, including the usage of AI.



The information note from 2024 and technical paper from 2025 both highlight the usage of AI in water-energy-food systems by optimizing resource use and improving efficiency.



AI Solutions for Water-Energy-Food Systems

AI for Climate Action Award 2025



AI for Climate Action Award 2025 Finalists



Alisa Luangrath
Lao PDR



Careen Joel
Tanzania

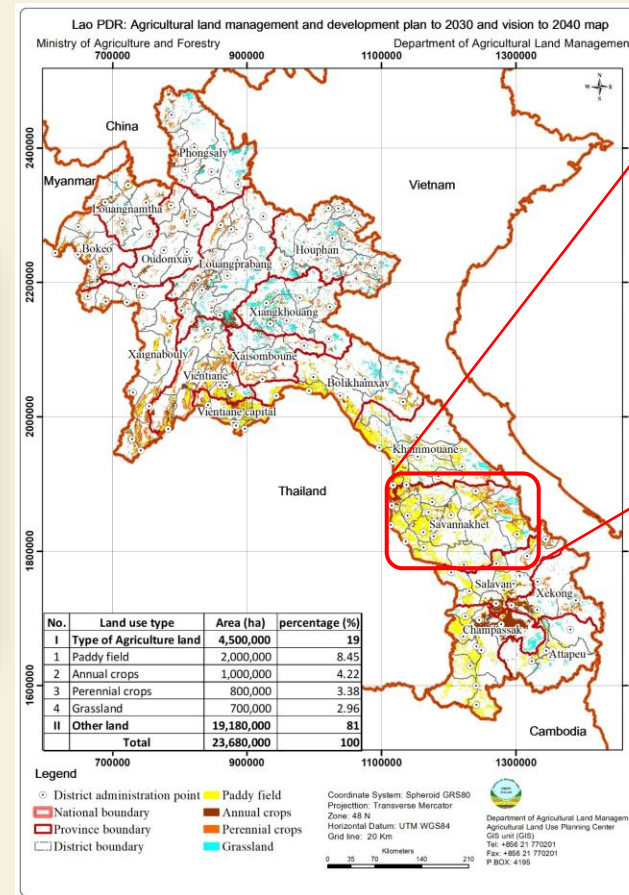


Hannah Rhodah
Uganda



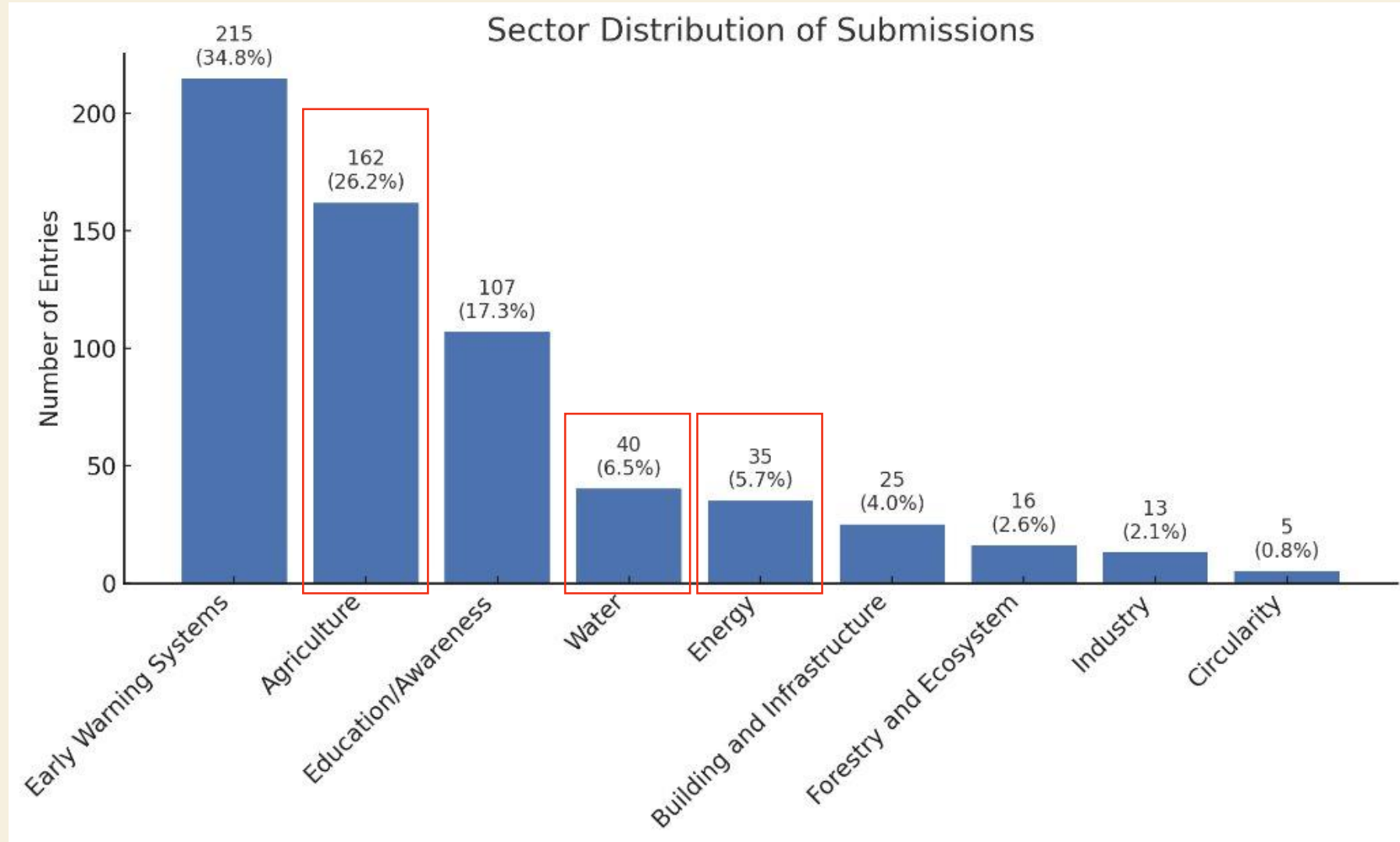
Tehila Mwenda
Zambia

United Nations Climate Change Technology Executive Board | TEC | UN Environment Programme | CTCN | KOICA



Source: SAFIR presentation from Alisa Luangrath

Analysis of the Submissions of the Award 2025



TEC #AI4ClimateAction Initiative Work 2026-2027

- ▶ UNFCCC TEC AI for Climate Action Forum 2026 and 2027
- ▶ UNFCCC Technology Mechanism AI for Climate Action Award 2026 and 2027
- ▶ COP 31 Masterclass on Water-Energy-Food Systems



United Nations Climate Change
Technology Executive Committee



TEC-KOICA Partnership on AI for Climate Action (2024-2027)



United Nations Climate Change
Technology Executive Committee

KOICA



Thank you.