

Results of the third Technology Mechanism NDE Survey

24th CTCN Advisory Board Meeting
20 - 25 September 2024
Agenda Item 7.1

Overview

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The NDE survey is conducted biennially (editions in 2020, 2022, and 2024)

2024 Survey Highlights

- Expanded in scope with more questions than previous iterations.
- Includes Annex 1 NDE as part of the target audience with dedicated questions.
- Features enhanced dissemination and follow-up strategies.

The survey was disseminated from May to August 2024 in 3 languages (SP, FR, ENG) through various methods:

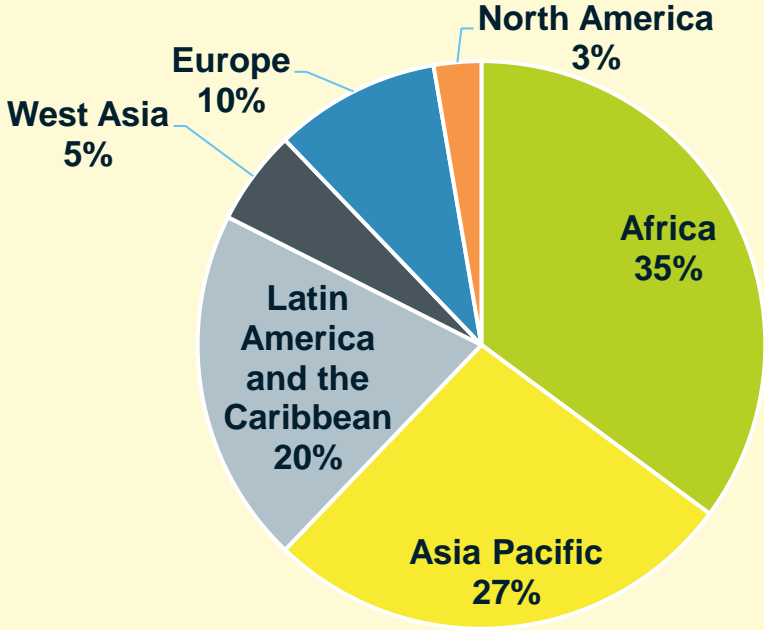
- An online survey
- Paper-based surveys distributed during NDE forums
- One-on-one follow-up by CTCN TA teams

Since the draft of the NDE Survey Report was published, several new surveys have been received, and we anticipate receiving more during the NDE forum in LAC in October.

Overview

Survey Response Statistics

NDEs	# of surveys sent	# of survey responses	# of online responses	# of offline responses
Annex 1	28	11	8	3
Non-Annex 1	138	63	47	16
Total	166	74	Response rate: 45% (Target of 50%)	

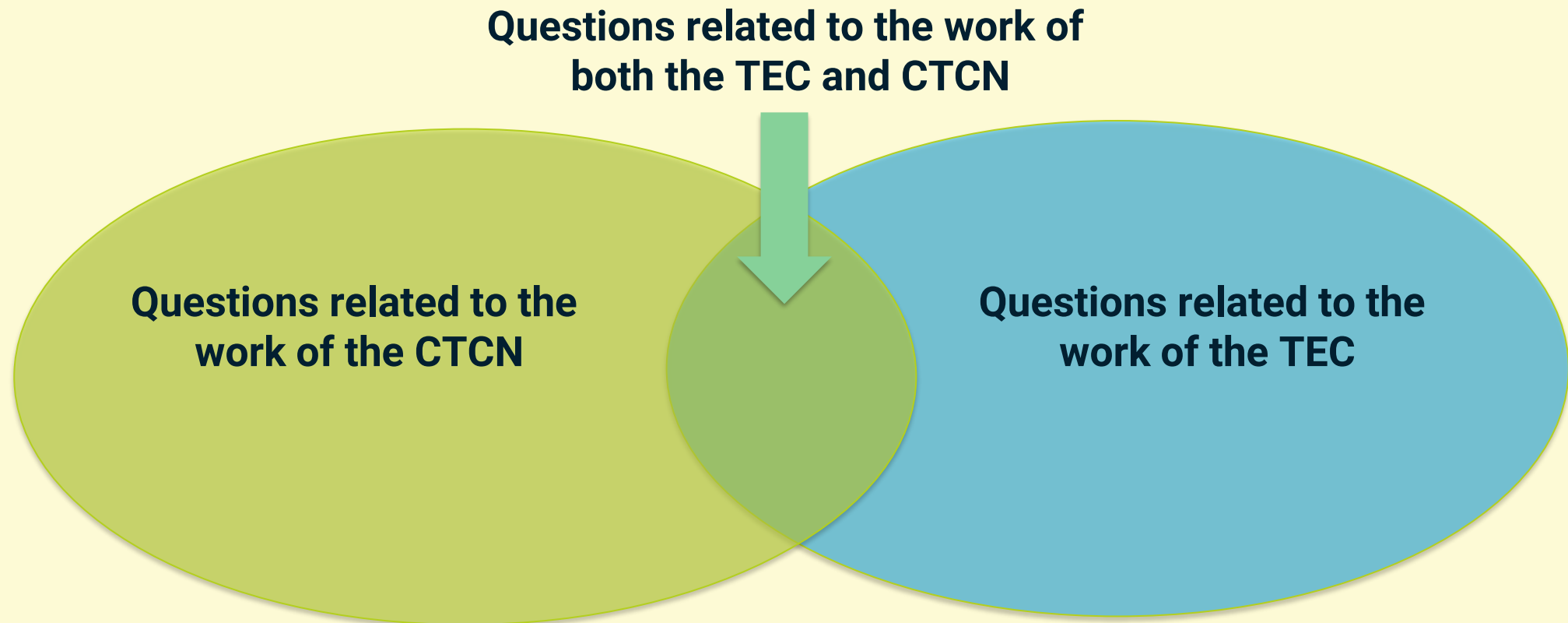


*Survey response statistics (as of August 7th, 2024)

Survey Design

54 Questions

- Multiple choice & scale questions (29)
- Open ended questions (25)





Results from Non-Annex 1 NDEs

Awareness and Engagement of Ministries Regarding NDE Roles

Awareness Level and Stakeholder Engagement

- NDEs perceive their ministries or organizations as **moderately informed** about the NDE role and **moderately engaged** with relevant in-country stakeholders (Average awareness score: 6.8)

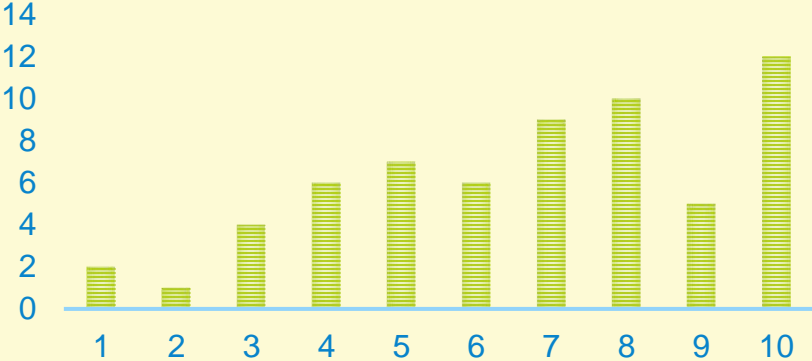
Regional perceptions regarding ministries/organizations level of awareness of the NDE role and level of engagement with stakeholders.

Africa	7.1
Asia and the Pacific	6.8
West Asia	6.5
LAC	5.8

Opportunities for Improvement

- Foundation of awareness and engagement among ministries and organizations, particularly given that the majority of NDEs (55) have taken part in one or more TA projects with the CTCN.
- Targeted efforts, especially in specific regions, could enhance the effectiveness and impact of NDEs.

NDE RATINGS ON MINISTRY/ORGANIZATION AWARENESS OF THE NDE ROLE AND STAKEHOLDER ENGAGEMENT



Perception of Ministry Governance in Climate Technology Decisions

Influence of Ministries and Role in Decision-making

- NDEs perceive the governance and political influence of line ministries as moderately strong in climate technology decisions.

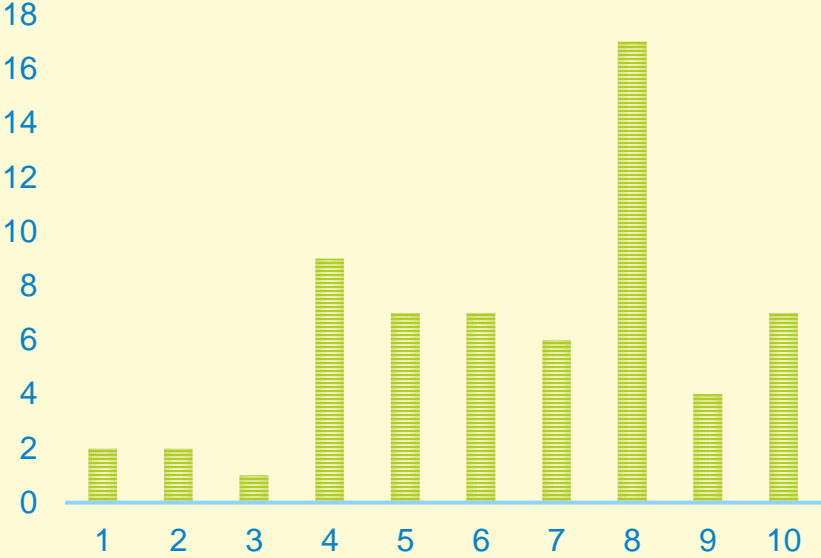
Regional perspectives on the governance and influence of line ministries in climate technology decisions.

Africa	6.9
Asia and the Pacific	6.5
West Asia	6
LAC	6

Opportunities for Improvement

- Increased Engagement:** Greater collaboration with ministries as key stakeholders could enhance decision-making and implementation.

NDE RATINGS ON LINE MINISTRIES' GOVERNANCE AND INFLUENCE IN CLIMATE TECHNOLOGY DECISIONS



Main Challenges Faced by NDEs in Accessing and Utilizing Climate Technologies

Primary Barriers:

1. Insufficient capacity

- Lack of human resources and technical expertise
- Need for a skilled workforce necessary for identifying, selecting, deploying, and maintaining climate technologies

2. Financial constraints:

- Limited resources for technology investments
- Challenges in accessing international funding mechanisms such as loans, grants, and private sector investment

Additional Barriers:

- **Inadequate institutional frameworks** and policy/regulatory gaps
- **Limited institutional collaboration** for climate technology development and transfer,
- **Insufficient access to information and public awareness** about climate technologies and their benefits

Measures for Governments to Strengthen Support for NDEs

Enhance Engagement and Coordination: Facilitate better collaboration with key in-country stakeholders, including: research institutions, relevant ministries, climate funds, and the private sector

Provide Support to NDEs:

- Ensure adequate staffing and operational capacity for NDEs.
- Support periodic meetings and technical committees.
- Increase visibility and invest in capacity-building initiatives.

Raise Awareness of NDE Roles:

- Strengthen understanding of NDE functions amongs stakeholders
- Integrate NDE roles into institutional frameworks

Facilitating capacity building: Enhanced technical expertise and operational capabilities for NDEs, including resource mobilization and project management skills.

Key Sectors Requiring Additional Support for Climate Technology Development and Deployment

Key sectors	Details
Renewable Energy	Solar, wind, hydropower; investment, infrastructure, and integration
Agriculture & Food Security	Climate-smart practices, irrigation, drought-resistant crops
Water Resources Management	Efficient irrigation, desalination, water purification
Climate-Resilient Infrastructure	Upgrading infrastructure to withstand climate impacts
Waste Management	Recycling, waste-to-energy, solid & liquid waste management
Forestry & Land Use	Sustainable forest management, reforestation, biodiversity preservation
Technology Innovation & R&D	Investment in new and improved climate technologies
Sector-Specific Needs	Transportation, coastal protection, industrial energy efficiency
Capacity Building & Training	Developing local expertise and skills for technology implementation

Common regional themes of renewable energy, capacity building, and improved waste management technologies. Each region has unique challenges, emphasizing the need for targeted support.



Results from Annex 1 NDEs

Resources, Awareness, and Engagement of Annex I NDEs

Resources and Opportunities

- **What resources and opportunities are available to Annex I NDEs to facilitate technology transfer and deployment?**
- Finding: NDEs feel their resources (budget, time, political support) are moderately sufficient for facilitating technology transfer (Average Rating: 5.5)

Awareness and Engagement

- **What is the level of awareness of Annex I NDE roles among ministries and organizations?**
- Finding: NDEs perceive ministries as somewhat informed about the NDE role and engaged with stakeholders (Average Rating: 5.7 compared to 6.8 for Non-Annex 1 NDEs)

Implications

- Despite available resources, the effectiveness of technology transfer may be hindered by a lack of awareness of the NDE's role among ministries and organizations, as well as limited engagement from key stakeholders.
- Initiatives to raise awareness of NDE roles and contributions could enhance collaboration with ministries.

Governance and Influence of Ministries in Climate Technology Decisions

Perception of Governance:

- NDEs view the governance and political influence of line ministries in climate technology decisions as **strong**.

Measures for Strengthening Support for Annex I NDEs¹.

- **Enhance Coordination:** Strengthen links between Technology Mechanism projects and government bilateral actions to scale up successful initiatives, possibly requiring additional resources for NDEs.
- **Improve Communication:** Foster better communication between Technology Mechanism entities and other government agencies.
- **Financial Contributions:** Provide financial support for the Technology Mechanism, including funding joint work programs, facilitating event participation, or offering pro-bono assistance.
- **Engage in International Bodies:** Participate in international organizations for technology transfer, such as electing representatives to the TEC or CTCN Advisory Board.
- **Facilitate Technology Deployment:** Gather information on technologies national companies want to deploy in developing countries and facilitate their introduction, with NDEs coordinating connections between technology holders and the Technology Mechanism.

Main Challenges Faced by NDEs in Accessing and Utilizing Climate Technologies

- 1. Access to Materials:** Difficulty in obtaining necessary materials for construction.
- 2. Financial Alignment:** Challenges in aligning financial resources, including private sector funds, with Paris Agreement goals.
- 3. Resource Limitations:** Insufficient financial and human resources for deployment and utilization.
- 4. Technological Uncertainty:** Uncertainty regarding the reliability and mitigation effects of new technologies.
- 5. Financial Barriers:** High costs associated with technologies and challenges in securing adequate funding.
- 6. Social Acceptance:** Challenges in obtaining local community acceptance for new technologies.
- 7. Conflict Impact:** Wars or conflicts hindering access to technologies.
- 8. Technical Assistance:** Difficulties in providing and receiving effective technical assistance and knowledge sharing.



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