



Technology Executive Committee

28 May 2021

Twenty-second meeting

Virtual meeting, 20–23 April and 26 April 2021 (TEC-CTCN joint session)

Report on the 22nd meeting of the Technology Executive Committee

I. Opening of the meeting

1. The Chair of the TEC for 2020, Mareer Mohamed Husny, opened TEC 22 at 2 p.m. Central European Summer Time on Tuesday, 20 April 2021.¹
2. After the opening, the Director of the Means of Implementation division of the secretariat, Daniele Violetti, addressed the meeting participants and extended his appreciation to the TEC for continuing its work during the pandemic.
3. The table below lists the TEC members who attended TEC 22. Observers present at the meeting are listed in annex I.

TEC members attending TEC 22	
Robert Berloznik	Hamza Merabet
Jorge Castro	Stephen Minas (Chair)
Kinga Csontos	Naoki Mori
Maheshwar Dhakal	Monique Motty
Dinara Gershinkova	Igor Onopchuk
Mareer Mohamed Husny (Vice-Chair)	Dietram Oppelt
Suil Kang	Shiv Srikant
Imran Khan	Stig Svenningsen
Clifford Mahlung	

II. Organizational matters

(a) Election of the Chair and Vice-Chair of the Technology Executive Committee for 2021

4. The TEC elected Stephen Minas (Greece) as Chair and Mareer Mohamed Husny (Maldives) as Vice-Chair of the TEC for 2021.

(b) Adoption of the agenda

5. The TEC adopted the agenda for TEC 22 as contained in document TEC/2021/22/1.

¹ Owing to the circumstances related to the coronavirus disease 2019 pandemic, TEC 22 was held virtually.

(c) **Organization of work**

6. The Chair presented, and the TEC took note of, the proposed organization of work for TEC 22 as contained in document TEC/2021/22/3, including the joint session with the CTCN Advisory Board.

III. Update on relevant meetings, events and initiatives

Outlook for 2021

7. The TEC took note of the overview provided by the Presidency of COP 26 of the planned activities leading up to the United Nations Climate Change Conference in Glasgow, to be held in November 2021.

8. The TEC also took note of the overview provided by the secretariat of the intergovernmental work and process in 2021.

IV. Implementation of the rolling workplan of the Technology Executive Committee for 2019–2022

(a) **Innovation**

i. Good practices and lessons learned in countries' research, development and demonstration

9. The TEC considered the draft executive summaries on research, development and demonstration for targeted audiences presented by the task force on innovation and provided guidance for their improvement and finalization, including on addressing intellectual property rights management. The TEC emphasized the importance of including civil society as a targeted stakeholder in future executive summaries.

10. The TEC held a virtual event at the meeting to launch its compilation of good practices and lessons learned on international collaborative research, development and demonstration initiatives of climate technology. The recording and proceedings of the event are available on TT:CLEAR.²

ii. Emerging climate technologies

11. The task force on innovation presented a concept note on future work of the TEC on emerging climate technologies in the energy supply sector, including objectives, scope, deliverables and timelines.

12. The TEC welcomed the concept note and provided guidance for further improvement of the work of the TEC in this area, including on emphasizing the social and environmental co-benefits of emerging technologies and considering nature-based solutions, as appropriate, while avoiding duplicating other work on this topic.

13. The TEC requested the task force to initiate work on emerging climate technologies taking into account the comments and guidance provided by the TEC at the meeting.

iii. Innovative approaches for adaptation technologies

14. The TEC took note of the summary prepared by the secretariat of the first thematic session of Technology Day, on innovative approaches to deploying, disseminating and scaling up technologies and solutions for climate-smart agriculture, held during the UNFCCC Climate Dialogues 2020.

15. The TEC considered the concept note on the second thematic session, on innovative approaches to strengthening coastal and ocean adaptation, co-presented by IUCN, the FEBA network and the NWP expert group on oceans.

16. The TEC provided guidance on the concept for the session, including on narrowing the scope of the topics to be covered, ensuring the discussion covers examples of what has worked and what has not, and drawing as appropriate on elements from the joint policy brief on technologies for

² For information on and the recording of the event, see https://unfccc.int/ttclear/events/2021/2021_event01.

coastal zones to inform the discussion. The TEC requested the task force on innovation to continue guiding the preparation of the event intersessionally.

17. The TEC took note of the proposal for continued engagement on this theme and potential future collaboration with IUCN, FEBA and the NWP expert group on oceans to advance work on innovative adaptation technologies.

(b) Implementation

i. Innovative approaches to stimulating uptake of existing clean technology solutions

18. The task force on implementation, with the support of a consultant, presented a draft TEC policy brief on innovative approaches to stimulating uptake of existing climate technologies.

19. The TEC welcomed the draft policy brief and provided suggestions for its improvement, including on the role of benchmarking beyond finance, as described in the draft policy brief.

20. The TEC requested the task force to finalize the policy brief taking into account the comments and guidance provided by the TEC at the meeting.

ii. Linkages between technology needs assessments and nationally determined contributions

21. The task force on implementation presented a draft concept note on a paper on linkages between the TNA and NDC processes.

22. The TEC welcomed the draft concept note and provided suggestions for its improvement.

23. The TEC requested the task force to start work on the paper, on the basis of the concept note, with a view to finalizing the paper at TEC 23.

(c) Enabling environment and capacity-building

i. Enabling environments to incentivize the private and public sector in development and transfer of technologies

24. The task force on enabling environment and capacity-building, with the assistance of a consultant, presented a draft paper on enabling environments and challenges, including barriers, related to technology development and transfer, based on TNAs, NDCs, CTCN technical assistance and relevant TEC Briefs.

25. The TEC welcomed the draft paper and requested the task force to continue working on the paper and to incorporate relevant information from the TNAs submitted in 2021.

26. The TEC requested the task force to finalize the paper at TEC 23.

ii. Endogenous capacities and technologies

27. The TEC welcomed the draft final report on needs, gaps, challenges, enablers and measures in developing and enhancing endogenous capacities and technologies, which was based on a survey of three stakeholder groups undertaken in 2020. It took note of the use of this report to inform various work under UNFCCC bodies and processes, including other TEC work.

28. The TEC provided additional recommendations related to research and innovation systems and collaboration. It requested the task force on enabling environment and capacity-building to finalize the report taking into account this guidance.

29. The TEC considered possible further work on this matter, noting the relevant guidance provided by the COP and the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement, and agreed to pursue this activity in 2022 in the context of collaboration with the CTCN.

(d) Support

i. Experience, lessons learned and good practices from GCF and GEF's support for technology

30. Following presentations by representatives of the GCF and the GEF on the support provided by the GCF and the GEF for climate technologies, the task force on support presented a concept note on preparing a technical paper on experience and lessons learned in relation to the support provided by the GCF and the GEF for climate technologies.

31. The TEC welcomed the concept note and provided guidance for preparing the technical paper, including that the success stories to be described in the paper could elaborate on how developing countries have accessed support from the GCF and the GEF for climate technologies.

32. The TEC agreed to invite the GCF and the GEF to provide comments on the concept note and requested the task force to prepare the technical paper taking into account the comments and guidance provided by the TEC, and the comments of the GCF and the GEF.

ii. Innovative financing and investment options at different stages of the technology cycle

33. The TEC considered the concept note presented by the task force on support on possible TEC work on innovative financing and investment options at different stages of the technology cycle.

34. The TEC provided guidance on further work on this issue by agreeing on follow-up activities, as proposed in the concept note.

V. Input to UNFCCC's processes

Inputs of the Technology Executive Committee for the global stocktake under the Paris Agreement on matters related to climate technology development and transfer

35. The TEC took note of the information provided by the secretariat on the scope of and modalities for the global stocktake, and the invitation extended to relevant UNFCCC constituted bodies to provide inputs for the technical phase of the process.

36. The TEC agreed to take into account the approaches of other constituted bodies when preparing its own input for the technical phase of the global stocktake, including to consider the guiding questions to be issued by the Chairs of the subsidiary bodies at TEC 23. The TEC also agreed to invite experts from the Intergovernmental Panel on Climate Change to attend TEC 23.

VI. Implementation of the joint activities of the Technology Executive Committee and the Climate Technology Centre and Network

37. The TEC and the CTCN Advisory Board met in a joint session on 26 April 2021 to take stock of the progress of their joint activities. The UNFCCC Executive Secretary provided opening remarks, commending the work of the Technology Mechanism and emphasizing the importance of technology, innovation, research and development and also technology transfer for meeting the goals of the Paris Agreement.

38. The TEC Chair presented the outcomes of TEC 22 and provided an update on implementation of the TEC rolling workplan. The Chair of the CTCN Advisory Board presented the progress by the CTCN in 2020. The CTCN Director provided a brief overview of the country engagement, events, and collaboration and partnerships with financial entities, multilateral development banks and the private sector to support countries in 2020.

(a) Joint activities on technology and nationally determined contributions

39. The TEC and the CTCN Advisory Board held a panel discussion with Party representatives of Chile, the Dominican Republic, Eswatini, the European Commission, the GCF and the NDC Partnership. The discussion provided an opportunity for sharing experience and lessons learned with regard to climate technology actions set out in NDCs, and tools and mechanisms available for countries to use in preparing and implementing their NDCs. The UNFCCC secretariat made a presentation on the technology component of NDCs. The full program and proceeding of the event has been made available on TT:CLEAR.³

40. The TEC and the CTCN Advisory Board considered the presentation by a consultant on the draft outline of a joint publication on technology and NDCs, and provided guidance on this matter, including on selection of case studies and engagement of relevant stakeholders to provide inputs.

³ More information on the panel discussion is available at https://unfccc.int/ttclear/events/2021/2021_event02

41. The TEC and the CTCN Advisory Board established a joint task force, comprising interested members of both bodies, to provide further guidance on this work intersessionally.

(b) Joint activities on technology and gender

42. The TEC and the CTCN Advisory Board considered the report by the TEC and CTCN gender focal points on progress in implementing the joint activities on technology and gender, underlined the importance of reinforcing gender-responsiveness in technology development and transfer, and noted that they look forward to further progress in this regard.

VII. Other matters

43. The TEC took note of the report by its gender focal point on progress in mainstreaming gender in the work of the TEC. The TEC noted that the gender focal points organized a meeting on gender mainstreaming for UNFCCC constituted bodies. The TEC also took note that rolling work-plan items have been identified as entry points for gender mainstreaming, that gender is still not taken into account sufficiently in some of its activities including on ensuring gender-balanced panels for its events. The TEC acknowledged that more must be done in this regard.

44. The TEC agreed to identify, intersessionally, focal points for the Paris Committee on Capacity-building to replace member of the TEC who previously served in this position.

45. The TEC took note that TEC 23 is tentatively scheduled to take place in the week of 6 -10 September 2021.

46. The TEC accepted the invitation to participate in the Global Sustainable Technology and Innovation Community conference 2021 and 2022, to be held in two sessions from 24 to 27 October 2021 and from 17 to 19 January 2022 respectively. The TEC requested the task forces (support for G-STIC 2021 session and enabling environment and capacity building and implementation for G-STIC 2022 session), subject to availability of resources, to develop concept notes on the engagement in these sessions.

47. The TEC considered revising its rules of procedure to include provisions for safeguarding against potential conflict of interest following the findings of an assessment conducted by the United Nations Office of Internal Oversight Services.⁴ The TEC agreed to continue considering this matter in TEC23 and requested the secretariat to prepare a note thereon.

48. The TEC took note of the information and update on the revision of its monitoring and evaluation framework and the statistics on its communication and outreach activities of the TEC since TEC 21, provided by the secretariat prior to the meeting.⁵

VIII. Closure of the meeting

49. The Chair summarized the key outcomes of the meeting and closed it at 5 p.m. Central European Summer Time on Monday, 26 April 2021.

⁴ See United Nations Office of Internal Oversight Services report 2019/122, available at <https://oios.un.org/file/8399/download?token=JHCIVGui>.

⁵ TEC/2021/22/InformationNote, available at <https://unfccc.int/ttclear/tec/meetings.html>.

Annex I

Observers registered to participate in the 22nd meeting of the Technology Executive Committee

Party observers

Lia Nicholson (Antigua and Barbuda)
Nicole Makowski (Argentina)
Sonia Regina Mudrovitsch de Bittencourt (Brazil)
Ambrosio Yobanolo (Chile)
Liset Borges Vazquez (Cuba)
Ruberdanis Tamayo Portales (Cuba)
Maged Mahmoud Abdelrahman (Egypt)
Céline Phillips (France)
Radian Bagiyono (Indonesia)
Rizki Amelgia (Indonesia)
Lucy Corcoran (Ireland)
Kenichi Wada (Japan)
Saja Hussain (Kuwait)
Roberto Ulises Ruiz Saucedo (Mexico)
Nicole Francisco Almanza (Panama)
Carol Simon (Panama)
Teresa Meira (Portugal)
Chaewoon Oh (Republic of Korea)
Moon Jung Kang (Republic of Korea)
Yewon Song (Republic of Korea)
Kyeong Seo Min (Republic of Korea)
Sirinporn Daengphuang (Thailand)
Ivano Iannelli (United Arab Emirates)
Meera Murali (United Kingdom of Great Britain and Northern Ireland)
Dominic Molloy (United Kingdom of Great Britain and Northern Ireland)

Observers from United Nations organizations and specialized agencies

Rose Mwebaza (CTCN)
Zhong Ping (Chair, CTCN Advisory Board)
Moa Forstorp (Vice-Chair, CTCN Advisory Board)
Hansol Park (GCF)
Katya Kuang-Idba (GEF)
Sara Traerup (UNEP DTU Partnership)
Victor Owade (World Intellectual Property Organization)

Non-governmental organization observers

Eve Tamme (Global Carbon Capture and Storage Institute – BINGO)
Marilyn Averill (University of Colorado at Boulder – RINGO)
Lylian Coelho Ferreira (Women and Men for Environment and Artificial Intelligence – women and gender)
Cathy Yitong Li (16th United Nations Climate Change Conference of Youth – women and gender)
Sanjana Paul (Earth Hacks – women and gender)
Samuel Rotimi Adunreke (YOUNGO)
William Alexander Charouhis (We Are Forces of Nature – YOUNGO)
Tambe Honourine Enow (Africa Climate and Environment Foundation – YOUNGO)
Itorobong Raphael Etuknwa (YOUNGO)
Akshay Anil Jamdade (YOUNGO)
Alfredo Lorenzo Recio Sablay (MoreViralThanTheVirus Philippines – YOUNGO)
Reynier Cuenca Tasico (YOUNGO)

Resource persons

Juan Hoffmaister (GCF)
Peter Schniering (Future Cleantech Architects)
Javiera Aldunate Bengolea (Ministry of Energy, Chile)

Abhishek Mahlotra (Indian Institute of Technology Delhi)
Ali Raza Rizvi (IUCN)
Emily Goodwin (IUCN)
Renate Krammer (Uniper, Germany)
Wytze van der Gaast (Consultant – JIN Climate and Sustainability)
Moritz Weigel (Independent Consultant)

Panellists at the joint session on 26 April 2021

Moderator – Matthew Kennedy
Ambrosio Yobánolo Del Real (Agency of Sustainability and Climate Change, Chile)
Luz Alcantara (Ministry of the Environment and Natural Resources, Dominican Republic)
Deepa Pullanikkatil (Eswatini)
Meropi Paneli (European Commission)
Romeo Bertolini (NDC Partnership)
Kavita Sinha (GCF)

Annex II

Abbreviations and acronyms

BINGO	business and industry non-governmental organizations
COP	Conference of the Parties
CTCN	Climate Technology Centre and Network
DTU	Technical University of Denmark
FEBA	Friends of Ecosystem-Based Adaptation
GCF	Green Climate Fund
GEF	Global Environment Facility
IUCN	International Union for Conservation of Nature
NDC	nationally determined contribution
NWP	Nairobi work programme on impacts, vulnerability and adaptation to climate change
RINGO	research and independent non-governmental organization
TEC	Technology Executive Committee
TNA	technology needs assessment
TT:CLEAR	technology information clearing house
UNEP	United Nations Environment Programme
YOUNGO	youth non-governmental organizations
