Technology Executive Committee

29 August 2017

Fifteenth meeting

Bonn, Germany, 12–15 September 2017

Mapping barriers and enabling environments

Concept note

I. Background

1.   As per activity 2 of its 2016-2018 workplan,[1] the Technology Executive Committee decided to map nationally determined contributions, requests submitted to the Climate Technology Centre and Network, and technology needs assessments regarding enabling environments and barriers.

2.   At its 14th meeting, the committee requested its task force on innovation and research, development and demonstration to initiate work on this task and report on progress to the committee at its 15th meeting.

II. Scope of the note

3.   The annex to this note contains a concept note prepared by the task force for undertaking activity 2 (and related activities 20 and 24) of the Technology Executive Committee's workplan.

III. Expected action by the Technology Executive Committee

4.   The Technology Executive Committee will be invited to provide guidance to the task force on this task.

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[1] https://goo.gl/EuR6f8.

Annex

Mapping barriers and enabling environments

Concept note

1. Context

To achieve the Paris Agreement objectives, we urgently need to replace high-emitting technologies with low-carbon alternatives. Similarly, to support effective adaptation to climate change we need to implement adaptation technologies. To achieve this, we need to deploy at large scale low-emission and adaptation technologies. What are the barriers that are hampering our efforts to achieve this? In addition, what are key enabling environments that can address barriers and help us achieve climate technology development and transfer at the speed and scale required?

2. Purpose of work

As per its 2016-2018 rolling workplan, the Technology Executive Committee (TEC) decided to explore these questions by mapping barriers and enabling environments as identified in nationally determined contributions (NDC), requests submitted to the Climate Technology Centre and Network (CTCN) and technology needs assessments (TNA). In the TEC's workplan the activities are as follows:

Activities	Deliverables	2017	2018
Activity 2.1. Map TNAs, NDCs and requests submitted to the CTCN regarding enabling environments and barriers	2.1 Background paper and mapping (2017/2018)	x	x
Activity 2.2. Based on work from activity 2.1, identify policies and strategies to improve enabling environments and address barriers	2.2 Key messages to Parties, including recommendations on policies and strategies (2018)	x	x
Activity 20. Organize an event to showcase: (1) results from mapping of TNAs, NDCs and requests submitted to the CTCN; and (2) policies and strategies to improve enabling environments and address barriers	20.1 Event 20.2 Communication and outreach materials, including on possible collaboration strategies		x
Activity 24.1. Collaborate with the CTCN during regional events to showcase recommendations on policies and strategies to improve enabling environments and address barriers	24. Disseminated outcomes, key messages and recommendations		x
Activity 24.2. Provide feedback to Parties and the CTCN on improving enabling environments and addressing barriers, including within TNAs, NDCs and requests submitted to the CTCN	24. Disseminated outcomes, key messages and recommendations		x

3. Previous work

Since the Conference of the Parties established it in 2010, the TEC has undertaken work on barriers and enabling environments:[1]

- In 2012 it held two thematic dialogues to explore related issues with invited experts.
- In 2013 it prepared a report on enablers and barriers contained in the TNA reports of 21 developing countries. Countries submitted these reports in 2012 and 2013.
- In 2016 it held a thematic dialogue on enablers and barriers to South–South cooperation on technologies for adaptation.

Other TEC work relevant to this task include its work on national systems of innovation, including a workshop and TEC Brief on this topic.

4. Objectives

The overall objective of this work may be to identify ways that countries and international actors can address barriers and enhance enabling environments for speeding up and scaling up climate technology development and transfer, to

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[1] Further information on these activities may be found here: http://unfccc.int/ttclear/tec/impact.html.

achieve the Paris Agreement and the sustainable development goals. The objectives of the TEC's activities on this area may include to:

- Identify common barriers and enabling environments to climate technology development and transfer as identified by developing countries in their TNAs, NDCs and requests to the CTCN.
- Identify key policies and strategies that may improve enabling environments and address common barriers to climate technology development and transfer.
- Disseminate information on these key policies and strategies to a broad range of relevant stakeholders.

5. Elaboration of activities

5.1 Mapping[2]

a. Map barriers and enabling environments as reported by developing countries in their:

- NDCs. These are available on the UNFCCC website at: http://www4.unfccc.int/ndcregistry/Pages/Home.aspx
- CTCN requests. These requests from developing countries and related documents are available on the CTCN website at: https://www.ctc-n.org/technical-assistance/data. Collaboration with the CTCN may help identify relevant information related to these requests.
- TNAs. The secretariat has synthesized all information emanating from TNAs submitted up until 2013.[3] As the next round of TNAs to be submitted will be in 2018, this mapping could draw on barriers and enablers as reported in TNAs submitted by developing countries in that year. As these TNA reports will be available in 2018, the TEC may firstly map the NDCs and CTCN requests as these are already available. It may then map the TNAs when they are all available.

b. Analyze results and identify common barriers[4] and enabling environments, including those that are common to different groups of countries (e.g. by region, for small island developing states, for least developed countries).

c. Identify policies and strategies, including by drawing on previous work of the TEC and other relevant organizations, to improve enabling environments and address the common barriers.

d. Prepare final report.

5.2 Event

Organize an event to showcase:

(1) Results from mapping TNAs, NDCs and CTCN requests;
(2) Policies and strategies to improve enabling environments and address barriers.

This event could be a TEC thematic dialogue, workshop, special event or side-event. It could be during a TEC meeting, stand-alone, or back-to-back with another global event (such as a side event during the Technology Facilitation Mechanism's Science, Technology and Innovation Forum). The event could bring together country policy-makers, technology implementers, the private sector (both technology holders and financiers), non-governmental organizations and other key stakeholders.

5.3 Communication materials

Based on the report and the event, the TEC could develop communication materials to showcase its analysis and key messages and recommendations to the COP (see 5.4). These could consist of a publication (for example, a TEC Brief) and a webpage on TT:CLEAR. As noted in its workplan, these materials may also highlight possible collaboration

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[2] The methodology for undertaking the activities in this section will be defined by the consultant undertaking this work and considered by the TEC taskforce. The methodology will need to be clearly defined to ensure robust results.

[3] See: document FCCC/SBSTA/2013/INF.7, Third synthesis report on technology needs identified by Parties not included in Annex I to the Convention.

[4] The list of generic barriers as contained in the TNA handbook Overcoming Barriers to the Transfer and Diffusion of Climate Technologies, may serve to help define these. See page 17 of http://www.tech-action.org/-/media/Sites/TNA_project/TNA%20Guidebooks/Overcoming-Barriers-to-the-Transfer-and-Diffusion-of-Climate-Technologies-2nd-Ed_FINAL.ashx?la=da.

strategies for improving enabling environments and addressing barriers. This publication could be disseminated in accordance with the TEC's communication and outreach strategy.[5]

5.4 Key messages and recommendations to the Conference of the Parties
As noted by its 2016-2018 workplan activity 2.2, the TEC is to provide key messages to Parties based on the mapping. This will include recommendations on policies and strategies for improving enabling environments and addressing barriers to climate technology development and transfer. In developing these, the TEC may also draw on the event and prepared communication material.

5.5 Dissemination
The TEC could disseminate its outputs by participating in relevant national, regional and international events. Through collaboration with the CTCN, these events could include the CTCN's regional forums.[6] The TEC could also continue participating in events organized by the Global Climate Action Champions.[7]

6. Timeline for activities
The following is an indicative timeline for undertaking the activities of section 5. As noted above, as TNA reports are estimated to be available only in mid-2018, the TEC may consider firstly mapping NDCs and CTCN requests. It may then map TNAs when they are available.

#	Activity	Deadline
1	Map barriers and enabling environments in NDCs and CTCN requests and identify policies and strategies	Draft report to TEC 16 (first half of 2018)
2	Event on mapping and policies and strategies	Second half of 2018
3	Communication material	Second half of 2018
4	Key messages and recommendations to COP 24	Second half of 2018
5	Map barriers in TNAs and update policies and strategies as required	2019

7. Linkages with other activities of the TEC's workplan
This activity may have linkages with the TEC's work on activity 15.5 of its workplan, which is to, based on information from the Global Environment Facility: "*Provide policy advice on measures to create enabling environments for technology development and transfer in developing countries and an analysis of the barriers that hamper project/programme implementation*"

8. Further work
From this work, the TEC may develop a nuanced understanding of common barriers to and enabling environments for climate technology development and transfer as identified by developing countries. This may help the TEC to identify key work areas for its future workplan. This may include as related to its work areas on, inter alia, adaptation technologies, climate technology financing, innovation, and mitigation technologies.

9. Guidance from the TEC
The task force believes that the TEC's work on this task could benefit from also mapping barriers and enabling environments as reported by Parties in their national communcations, biennial update reports and biennial reports to the UNFCCC. These documents may support the TEC to develop a more comprehensive understanding of barriers to and enabling environments for climate technology development and transfer. The task force seeks guidance from the TEC on including, as part of this activity, a mapping of the barriers and enabling environments as reported in national communications, biennial reports and biennial update reports.

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[5] https://goo.gl/8Cjr63.
[6] https://www.ctc-n.org/calendar.
[7] http://unfccc.int/paris_agreement/items/9951.php.