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# SBSTA 32–49 TECHNOLOGY CONCLUSIONS

United Nations Framework Convention on Climate Change  
Finance, Technology and Capacity Building  
Technology

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**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-second session**  
**Bonn, 31 May to 9 June 2010**

Agenda item 4

**Development and transfer of technologies**

**Conclusions**

24. The SBSTA and the SBI welcomed the election of Mr. Bruce Wilson (Australia) as Chair and Mr. Elhassan as Vice-Chair of the EGTT for 2010, as well as the nomination by Parties of experts to serve as members of the EGTT for 2010.<sup>13</sup>

25. The SBSTA and the SBI welcomed the report of the EGTT<sup>14</sup> and noted the oral report by the Vice-Chair of the EGTT on the outcomes of the group's meetings held on 22–23 February 2010 in Sydney, Australia, and on 27–28 May 2010 in Bonn, Germany.

26. The SBSTA and the SBI endorsed the updated programme of work of the EGTT for 2010–2011.<sup>15</sup> They requested the EGTT, in undertaking its work on activities 4.3 and 4.4 of the updated programme of work, to focus on areas where there is a high level of convergence in the deliberations among Parties on technology-related matters under the Ad Hoc Working Group on Long-term Cooperative Action under the Convention. They further requested the EGTT, in undertaking these activities, to elaborate upon options for the operational modalities of:

(a) The proposed Technology Executive Committee, based upon the functions listed in document FCCC/AWGLCA/2010/6, annex III, paragraph 7 (a–d), (g) and (i);

(b) The proposed Climate Technology Centre and Climate Technology Network, based upon the functions listed in document FCCC/AWGLCA/2010/6, annex III, paragraph 10 (a–c) and (d) (i–v).

27. The SBSTA and the SBI recalled the conclusions of their thirtieth and thirty-first sessions that consideration should be given to establishing an effective means of engaging the private sector more fully in the process.<sup>16</sup> They welcomed the continued dialogue of the EGTT with the business community that took place in conjunction with the group's meetings and encouraged the EGTT to continue this dialogue, ensuring a balanced representation of business from developed and developing countries.

28. They invited the EGTT to consider options to improve engagement with academia and civil society. They noted the scaling up of activities by the Private Financing Advisory Network of the Climate Technology Initiative.

29. The SBSTA endorsed the terms of reference for a report by the EGTT on options to facilitate collaborative technology research and development (R&D).<sup>17</sup> The SBSTA requested the EGTT, in preparing this report, to focus on collaborative technology R&D to enhance action on mitigation and adaptation under the Convention, and on how collaborative technology R&D activities outside the Convention can support this action.

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<sup>13</sup> FCCC/SB/2010/INF.1, annex II.

<sup>14</sup> FCCC/SB/2010/INF.1.

<sup>15</sup> FCCC/SB/2010/INF.1, annex I.

<sup>16</sup> FCCC/SBSTA/2009/3, paragraph 22, FCCC/SBI/2009/8, paragraph 66, FCCC/SBSTA/2009/8, paragraph 23, and FCCC/SBI/2009/15, paragraph 64.

<sup>17</sup> FCCC/SBSTA/2010/INF.4.

30. The SBSTA noted the report by the secretariat on information required for using the performance indicators to support the review of the implementation of Article 4, paragraphs 1(c) and 5, of the Convention.<sup>18</sup> It also noted the lessons learned from, and data gaps for, using the indicators to monitor and evaluate the effectiveness of the implementation of technology development and transfer activities which were specified in the report. The SBSTA noted that the work of the EGTT on performance indicators provided experiences and lessons learned which would be useful for possible future work on the measurement, reporting and verification of technological support, including:

- (a) The challenges faced with regard to the availability and collection of data;
- (b) The resource implications associated with collecting and processing these data;
- (c) The challenges faced in assessing the effectiveness of technology development and transfer activities with regard to their outcomes and impacts.

31. The SBSTA noted that the secretariat, with the assistance of the Government of Belize and in collaboration with the Global Environment Facility, the Inter-American Development Bank and the Climate Technology Initiative, had organized the Latin America and Caribbean regional workshop on preparing technology transfer projects for financing, which took place in Belize City, Belize, from 5 to 7 May 2010. It also noted that the Asian regional workshop on preparing technology transfer projects for financing will be held later this year. The SBSTA noted that the secretariat will prepare a report on the experiences gained and lessons learned from the organization of the regional training workshops on preparing technology transfer projects for financing, for consideration by the SBSTA at its thirty-third session with a view to determining any further follow-up actions, as appropriate.

32. The SBSTA agreed to bring forward the sixth regular meeting of the EGTT, which had been scheduled to take place in conjunction with the thirty-third sessions of the subsidiary bodies, in order for the group to advance its work and finalize its reports in time for these sessions.

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<sup>18</sup> FCCC/SBSTA/2010/INF.3.

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-third session**  
**Cancun, 30 November to 4 December 2010**

Agenda item 4

**Development and transfer of technologies**

**Conclusions**

26. The SBSTA and the SBI welcomed the report of the EGTT on the outcomes of the group's work, including its sixth regular meeting, held from 19 to 20 November 2010 in Bonn, Germany,<sup>11</sup> and noted the oral report by the Vice-Chair of the EGTT on the outcomes of the group's work. The SBSTA and the SBI noted that the EGTT has made considerable progress in implementing its programme of work for 2010–2011. The SBSTA and the SBI expressed their appreciation to Mr. Bruce Wilson (Australia), the Chair of the EGTT, and Mr. Elhassan, the Vice-Chair, for leading the EGTT in the advancement of its programme of work for 2010–2011.

27. The SBSTA and the SBI welcomed the updated handbook *Conducting Technology Needs Assessments for Climate Change* (hereinafter referred to as the TNA handbook), jointly prepared by the United Nations Development Programme and the secretariat in collaboration with the EGTT and the Climate Technology Initiative (CTI). The SBSTA and the SBI encouraged Parties not included in Annex I to the Convention (non-Annex I Parties), currently conducting or updating their technology needs assessments (TNAs) to use the updated TNA handbook.

28. The SBSTA welcomed the report by the EGTT on options to facilitate collaborative technology research and development.<sup>12</sup> It noted that the report contains a wealth of information and a range of findings that could inform Parties in their deliberations on matters relating to technology development and transfer, including on how to stimulate collaborative action on technology research and development both under and outside of the Convention.

29. The SBSTA noted that the secretariat, with the assistance of the Government of Singapore and in collaboration with the United Nations Environment Programme, the Asian Development Bank and the CTI, organized the regional workshop for Asia and the Pacific on preparing technology transfer projects for financing, which was held in Singapore from 26 to 28 October 2010. The SBSTA expressed its appreciation for the assistance provided by the Government of Singapore in hosting this workshop.

30. The SBSTA welcomed the report by the secretariat on the regional training programme on project preparation,<sup>13</sup> held in Africa, Asia and the Pacific, and Latin America and the Caribbean. It noted the information given in the report on the outcomes of, and experiences and lessons learned from, the organization of these workshops. The SBSTA recognized the need for organizing further training workshops in French and Spanish and that any possible follow-up actions would need to draw upon such experiences and lessons learned.

31. The SBSTA noted the information provided orally by the CTI on the continued scaling up of the CTI Private Financing Advisory Network (CTI PFAN) in enhancing the capacity of project developers and other project proponents to access private capital to finance tangible projects on clean energy, including renewable energy, and encouraged other multilateral initiatives to provide information on activities that lead to enhanced and accelerated technology

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<sup>11</sup> FCCC/SB/2010/INF.4.

<sup>12</sup> FCCC/SBSTA/2010/INF.11.

<sup>13</sup> FCCC/SBSTA/2010/INF.6.

development and transfer to developing countries.

32. The SBSTA noted that the secretariat will organize in early 2011 a workshop on good practices in conducting TNAs as specified in the updated programme of work of the EGTT for 2010–2011 and looked forward to receiving the report on the outcomes of this workshop at its thirty-fourth session.

33. The SBSTA requested the secretariat, subject to the availability of resources:

(a) To organize in French and Spanish training workshops on preparing technology transfer projects for financing for non-Annex I Parties, in collaboration with relevant international organizations and initiatives;

(b) To coordinate, with the participation of relevant international organizations and initiatives, the implementation of a pilot training course combining online training with face-to-face training on preparing technology transfer projects for financing, building on the experiences and lessons learned from the regional training programme on project preparation referred to in paragraph 30 above, and to report on the progress to the SBSTA at its thirty-fifth session.

34. The SBSTA invited Parties and relevant organizations in a position to do so to provide financial support for the activities referred to in paragraph 33 above.



**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-fourth session**  
**Bonn, 6–16 June 2011**

Agenda item 5

**Development and transfer of technologies**

**Conclusions**

37. The SBSTA took note of the organization of the workshop on technology needs assessments (TNAs) organized by the secretariat, in collaboration with the Global Environment Facility, the United Nations Development Programme, the United Nations Environment Programme and the Climate Technology Initiative, which took place on 1 and 2 June 2011 in Bonn, Germany.

38. The SBSTA noted with appreciation the active participation of experts and practitioners from the public and private sectors. The SBSTA also noted that the written report on the outcomes of this workshop will be made available for consideration by the SBSTA at its thirty-fifth session.

39. The SBSTA noted that, in order to enhance the near-term prospect that projects identified through the TNA process will be implemented, projects should be presented as broadly as possible, through existing and enhanced means, to potential sources of financing from the public and private sectors and international cooperation. Among the sources of public and private funding, project facilitation tools and related organizations that were discussed during the TNA workshop referred to in paragraph 37 above were the Global Energy Efficiency and Renewable Energy Fund, the Asian Development Bank, the KfW Reconstruction Credit Institute, the Renewable Energy and Energy Efficiency Partnership, the World Business Council on Sustainable Development, and the Climate Technology Initiative–Private Financing Advisory Network, which facilitates access to financing to implement projects in developing countries. The SBSTA further noted that TNAs could provide useful information to Parties for activities under the Technology Mechanism, established by decision 1/CP.16, to be fully operational in 2012 in accordance with decision 1/CP.16, paragraph 128.

40. The SBSTA welcomed the UNFCCC training package on preparing technology transfer projects for financing, which resulted from the training programme on project preparation implemented by the secretariat in collaboration with international organizations and initiatives in response to a request made by the COP at its thirteenth session.<sup>15</sup>

41. The SBSTA recalled the conclusions of its thirty-third session requesting the secretariat to organize, subject to the availability of resources, two training workshops, in French and Spanish, respectively, on preparing technology transfer projects for financing for Parties not included in Annex I to the Convention (non-Annex I Parties) and to report on progress in the implementation of a pilot online training course on the same matter to the SBSTA at its thirty-fifth session.<sup>16</sup> It invited Parties and relevant organizations in a position to do so to provide financial support to ensure the timely and effective organization of these activities, which could assist non-Annex I Parties in implementing the results of their TNAs.

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<sup>15</sup> FCCC/CP/2007/6, paragraph 79(a).

<sup>16</sup> FCCC/SBSTA/2010/13, paragraphs 30, 33 and 34.

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-fifth session**  
**Durban, 28 November to 3 December 2011**

Agenda item 5

**Development and transfer of technologies**

**Conclusions**

25. The SBSTA welcomed the report on the workshop on technology needs assessments (TNAs) held on 1 and 2 June 2011 in Bonn.<sup>21</sup>

26. The SBSTA noted that the workshop provided opportunities for Parties:

(a) To share good practices in, and lessons learned from, conducting TNAs with Parties not included in Annex I to the Convention;

(b) To identify specific needs and practical actions that could assist Parties in implementing the results of their TNAs, particularly actions that will facilitate and realize the actual transfer of technology to meet the priority needs of developing countries;

(c) To discuss the possible roles of TNAs in the context of the further implementation of the technology transfer framework<sup>22</sup> and in the enhancement of technology development and transfer activities under the Convention to support action on mitigation and adaptation;

(d) To identify means for implementing the results of TNAs while ensuring a balance between mitigation and adaptation activities.

27. The SBSTA encouraged Parties to use the workshop results to consider ways to strengthen the role of TNAs in enhancing action on the development and transfer of technology, notably in the context of the Technology Mechanism.

28. The SBSTA welcomed the experiences gained and lessons learned from the TNA process and encouraged Parties to take these into account in the preparation of their nationally appropriate mitigation actions, national adaptation plans, low-carbon development strategies and technology road maps or action plans.

29. The SBSTA noted the information provided orally by the Climate Technology Initiative and at the workshop on TNAs on the role of the Climate Technology Initiative's Private Financing Advisory Network in helping clean energy project developers to access private capital and encourages other multilateral initiatives to promote the financing of projects, and to inform the SBSTA about such activities.

30. The SBSTA recalled the conclusion at its thirty-third session that requested the secretariat to organize two training workshops, in Spanish and French, subject to the availability of resources, on preparing technology transfer projects for financing and to report on progress in the implementation of a pilot online training course on the same matter.

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<sup>21</sup> FCCC/SBSTA/2011/INF.10.

<sup>22</sup> The framework for meaningful and effective actions to enhance the implementation of Article 4, paragraph 5, of the Convention was adopted by decision 4/CP.7 and enhanced by decision 3/CP.13.

31. The SBSTA requested the secretariat, in collaboration with interested organizations, to organize workshops, subject to the availability of resources, on TNAs in 2012 aimed at building capacities and sharing experiences, lessons learned, information and knowledge on opportunities and means for developing countries to prepare their TNAs and access funding for their implementation.

32. The SBSTA requested the secretariat to prepare an updated TNA synthesis report, including ‘second-generation’ TNAs through the updated *Handbook for Conducting Technology Needs Assessments for Climate Change*<sup>23</sup> and the Poznan strategic programme on technology transfer, to be presented at its thirty-seventh session.

33. Pursuant to decision 1/CP.16, paragraph 126, the SBSTA and the SBI considered the report on activities and performance of the TEC for 2011<sup>24</sup> and agreed to recommend elements for a draft decision on this matter for consideration and adoption by the COP at its seventeenth session (these elements for a draft decision are contained in the annex to FCCC/SBSTA/2011/L.22).<sup>25</sup>

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<sup>23</sup> United Nations Development Programme. 2009. *Handbook for Conducting Technology Needs Assessments for Climate Change*. Available at [http://unfccc.int/tclear/pdf/TNAHandbook\\_9-15-2009.pdf](http://unfccc.int/tclear/pdf/TNAHandbook_9-15-2009.pdf).

<sup>24</sup> FCCC/SB/2011/2.

<sup>25</sup> For the text as adopted see decision 4/CP.17, paragraphs 9–11.

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-sixth session**  
**Bonn, 14–25 May 2012**

Agenda item 5

**Development and transfer of technologies and  
report of the Technology Executive Committee**

**Conclusions**

29. The SBSTA and the SBI welcomed the report on the linkage modalities and the rolling workplan of the Technology Executive Committee (TEC) for 2012–2013.<sup>11</sup>

30. The SBSTA and the SBI also welcomed the rolling workplan of the TEC for 2012–2013, as set out in annex I to the report referred to in paragraph 29 above, and encouraged the TEC to advance the implementation of this workplan. The SBSTA and the SBI encouraged the TEC to undertake the short-term activities of this plan as a matter of priority and welcomed the organization of thematic dialogues, including one on enabling environments and barriers to technology development and transfer, at its next meeting.

31. The SBSTA and the SBI noted that the TEC has structured its workplan around the following three areas in order to prioritize its work: activities mandated by the United Nations Climate Change Conference held in Durban, South Africa, in 2011; short-term activities to begin in 2012; and medium-term activities to begin in 2013.

32. The SBSTA and the SBI also noted the initial ideas of the TEC on its modalities on linkages with other relevant institutional arrangements under and outside the Convention, as referred to in decision 1/CP.16, paragraph 125, and developed by the TEC in response to decision 4/CP.17. The SBSTA and the SBI further noted that the nature of such linkages may evolve over time, recognizing that a number of institutional arrangements are materializing pursuant to decisions taken at the seventeenth session of the COP and that some institutional arrangements have been asked to collaborate with the TEC, as referred to in decision 3/CP.17, paragraph 17, and that some institutional arrangements have been asked to develop mechanisms to draw upon appropriate expert and technical advice, including from the relevant thematic bodies established under the Convention, as appropriate.

33. The SBSTA and the SBI invited the TEC to further elaborate and fine-tune its initial ideas on modalities on linkages with the institutional arrangements under and outside the Convention as set out in annex II of the report referred to in paragraph 29 above.

34. The SBSTA and the SBI noted that the TEC will consult with the relevant institutional arrangements, once they become operational, to seek their views and mutual agreement on the proposed linkage modalities. The SBSTA and the SBI also noted that the TEC will report on the results of its consultations with these relevant institutional arrangements on these modalities in its report on activities and performance for 2012, through the subsidiary bodies, for consideration by the COP at its eighteenth session.

35. The SBSTA recalled the conclusions<sup>12</sup> of its thirty-fifth session requesting the secretariat, in collaboration with interested organizations, to organize workshops, subject to the availability of resources, on technology needs assessments (TNAs) in 2012 and noted that the United Nations Environment Programme, in collaboration with the secretariat, plans to organize a workshop on TNAs in the second half of 2012. The SBSTA requested the secretariat to report on the outcomes of this workshop and to make the report available to the SBSTA for consideration at its thirty-seventh session.

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<sup>11</sup> FCCC/SB/2012/1.

<sup>12</sup> FCCC/SBSTA/2011/5, paragraph 31.

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-seventh session**  
**Doha, 26 November to 1 December 2012**

Agenda item 6

**Development and transfer of technologies and report of the Technology Executive Committee**

**Conclusions**

31. The SBSTA welcomed the report on the experience-sharing workshop on technology needs assessments (TNAs),<sup>18</sup> which was organized by the United Nations Environment Programme, in collaboration with the secretariat, from 10 to 12 September 2012 in Bangkok, Thailand.

32. The SBSTA encouraged Parties to draw upon the outcomes of the experience-sharing workshop on TNAs and to build on them when preparing their nationally appropriate mitigation actions, national adaptation plans, low-emission development strategies and technology road maps and action plans.

33. Pursuant to decision 1/CP.16, paragraph 126, the SBSTA and the SBI considered the report on activities and performance of the TEC for 2012<sup>19</sup> and recommended the draft decision text contained in the annex to document FCCC/SBSTA/2012/L.32 for consideration and finalization by the COP at its eighteenth session.<sup>20</sup>

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<sup>18</sup> FCCC/SBSTA/2012/INF.7.

<sup>19</sup> FCCC/SBSTA/2012/2.

<sup>20</sup> For the text as adopted, see decision 13/CP.18.

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-eighth session**  
**Bonn, 3–14 June 2013**

Agenda item 6

**Development and transfer of technologies and implementation of the  
Technology Mechanism**

**Conclusions**

56. The SBSTA commended the efforts of the United Nations Environment Programme, as the host of the Climate Technology Centre (CTC), in making the necessary arrangements to promptly launch the work of the CTC, including convening the 1st meeting of the Advisory Board of the Climate Technology Centre and Network (CTCN) on 14 and 15 May 2013 in Copenhagen, Denmark, in accordance with decision 14/CP.18, paragraphs 6 and 9.

57. The SBSTA welcomed the election of Mr. Griffin Thompson (United States of America) as Chair and Mr. Fred Machulu Onduri (Uganda) as Vice-Chair of the Advisory Board of the CTCN.

58. The SBSTA noted the progress report on modalities and procedures of the CTCN and its Advisory Board.<sup>12</sup> It encouraged the Advisory Board of the CTCN to conclude its work on this matter and submit its report on modalities and procedures of the CTCN and its Advisory Board to the COP through the subsidiary bodies at their thirty-ninth sessions, with a view to Parties making a decision on this matter at COP 19.

59. The SBSTA requested the Advisory Board of the CTCN, in elaborating the modalities and procedures of the CTCN as referred to in paragraph 58 above, to take into account decisions 1/CP.16, paragraphs 120 and 123, 2/CP.17, paragraph 135, and 2/CP.17, annex VII, and the coherence and synergy within the Technology Mechanism in accordance with decision 1/CP.18, paragraph 59.

60. The SBSTA welcomed the nominations by Parties of their national designated entities (NDEs) in accordance with decisions 2/CP.17 and 14/CP.18.<sup>13</sup> The SBSTA underlined the essential role of the NDEs in the operationalization of the CTCN and encouraged Parties that have not yet nominated their NDEs to urgently communicate their nominations through their national focal points to the secretariat.

61. The SBSTA requested the Advisory Board of the CTCN, in elaborating the modalities and procedures of the CTCN, to consult with various stakeholders, in particular the NDEs, on, inter alia:

- (a) How technical support may be provided to NDEs on requests from developing countries;
- (b) How interaction is enabled between the CTC, NDEs and the Network of the CTCN.

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<sup>12</sup> FCCC/SB/2013/INF.5.

<sup>13</sup> A list of the national designated entities nominated by Parties is available on the UNFCCC website at [http://unfccc.int/tclear/templates/render cms\\_page?s=TEM\\_nda](http://unfccc.int/tclear/templates/render cms_page?s=TEM_nda).

**Subsidiary Body for Scientific and Technological Advice**  
**Thirty-ninth session**  
**Warsaw, 11–16 November 2013**

Agenda item 7

**Development and transfer of technologies and implementation of the  
Technology Mechanism**

(Agenda item 7(a))

**Joint annual report of the Technology Executive Committee and the Climate Technology  
Centre and Network**

**Proceedings**

30. The SBSTA considered this agenda sub-item at its 1st and 3rd meetings. It had before it document FCCC/SB/2013/1. At its 1st meeting, the Chair of the SBSTA invited Mr. Gabriel Blanco (Argentina), Vice-Chair of the Technology Executive Committee (TEC) and Mr. Griffin Thompson (United States of America), Chair of the Advisory Board of the Climate Technology Centre and Network (CTCN), to report on the work of the Committee and the Board, respectively. At the same meeting, the SBSTA agreed to consider this agenda sub-item in informal consultations co-facilitated by Mr. Majid Al Suwaidi (United Arab Emirates) and Mr. Stig Svenningsen (Norway). A statement was made by a representative of one Party.

31. At the 3rd meeting, the Chair took note that the SBSTA was unable to conclude its consideration of the joint annual report of the TEC and the CTCN. The SBSTA noted that the Chair will inform the President of the COP and the CMP accordingly.<sup>28</sup>

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<sup>28</sup> The COP requested the SBSTA and the SBI to continue consideration of this joint annual report at their fortieth sessions, with a view to recommending a draft decision on this matter for consideration and adoption at COP 20 (December 2014), in accordance with rules 10(c) and 16 of the draft rules of procedure being applied. For more information, see the COP report contained in document FCCC/CP/2013/10.

**Subsidiary Body for Scientific and Technological Advice  
Thirty-ninth session  
Warsaw, 11–16 November 2013**

Agenda item 7

**Development and transfer of technologies and implementation of the  
Technology Mechanism**

(Agenda item 7(b))

**Report on modalities and procedures of the Climate Technology Centre  
and Network and its Advisory Board**

**Conclusions**

35. The SBSTA and the SBI noted with appreciation the work of the Advisory Board of the CTCN in finalizing in a timely manner the modalities and procedures of the CTCN for consideration at COP 19.

36. The SBSTA and the SBI recommended a draft decision<sup>30</sup> on this matter for consideration and adoption at COP 19.<sup>31</sup>

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<sup>30</sup> For the text of the draft decision, see document FCCC/SB/2013/L.3/Add.1.

<sup>31</sup> For the text as adopted, see decision 25/CP.19.



**Subsidiary Body for Scientific and Technological Advice  
Thirty-ninth session  
Warsaw, 11–16 November 2013**

Agenda item 7

**Development and transfer of technologies and implementation of the Technology Mechanism**

(Agenda item 7(c))

**Third synthesis report on technology needs identified by Parties not included in Annex I to the Convention**

**Conclusions**

39. The SBSTA welcomed with appreciation the information contained in the third synthesis report, prepared by the secretariat, on technology needs identified by Parties not included in Annex I to the Convention.<sup>33</sup>

40. The SBSTA agreed to continue its consideration of the report at SBSTA 40.

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<sup>33</sup> FCCC/SBSTA/2013/INF.7.

**Subsidiary Body for Scientific and Technological Advice**

**Fortieth session**

**Bonn, 4–15 June 2014**

Agenda item 4

**Development and transfer of technologies and implementation of the Technology Mechanism**

Agenda item 4(a)

**Joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network for 2013**

**Conclusions**

31. The SBSTA and the Subsidiary Body for Implementation (SBI), as requested at COP 19, continued consideration of the joint annual report of the Technology Executive Committee (TEC) and the Climate Technology Centre and Network (CTCN) for 2013<sup>9</sup> with a view to forwarding a draft decision for consideration and adoption at COP 20 (December 2014).<sup>10</sup>

32. The SBSTA and the SBI invited the TEC to further strengthen the linkages with organizations inside and outside the Convention, as referred to in document FCCC/SB/2012/1, annex II, paragraph 3, which undertake work relating to enabling environments for and barriers to the development and transfer of technology, including those issues referred to in document FCCC/SB/2012/2, paragraph 35.

33. The SBSTA and the SBI recommended a draft decision on the joint annual report of the TEC and the CTCN for 2013 for consideration and adoption at COP 20 (for the text of the draft decision, see document FCCC/SBSTA/2014/2/Add.1).

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<sup>9</sup> FCCC/SB/2013/1.

<sup>10</sup> FCCC/CP/2013/10, paragraph 75.

**Subsidiary Body for Scientific and Technological Advice**  
**Fortieth session**  
**Bonn, 4–15 June 2014**

Agenda item 4

**Development and transfer of technologies and implementation of the Technology Mechanism**

Agenda item 4(b)

**Third synthesis report on technology needs identified by Parties not included in Annex I to the Convention**

**Conclusions**

36. The SBSTA continued its consideration of the third synthesis report on technology needs identified by Parties not included in Annex I to the Convention (non-Annex I Parties).<sup>12</sup> The SBSTA welcomed the completion of technology needs assessments (TNAs) by 31 non-Annex I Parties. It acknowledged that financial support for the TNAs was provided by the Global Environment Facility under the Poznan strategic programme on technology transfer, and that technical support was provided by the United Nations Environment Programme and regional organizations.

37. The SBSTA noted with appreciation the evolution of the TNA process. It noted that most of the Parties that have undertaken their TNAs, as referred to in paragraph 36 above, have also developed technology action plans, which prioritize technologies and recommend an enabling framework for overcoming barriers to the diffusion of those technologies. It also noted the need for Parties to enhance and follow up on the TNA process by further promoting the development and implementation of economically, environmentally and socially sound project proposals.

38. The SBSTA recognized that the third synthesis report offers a wide range of information on, and highlights the importance of, the TNA process, the involvement of stakeholders, national circumstances, national development priorities, existing policies and measures, prioritized sectors and technologies, identified barriers to and enabling frameworks for technologies, technology action plans, including activities related to research and development, demonstration, deployment and diffusion of prioritized technologies, project ideas and cross-cutting elements.

39. It also recognized that the information on technology action plans and project ideas contained in the third synthesis report could provide insight into the type of support needed to enhance the implementation of the results of TNAs, particularly with regard to potential sources of financial support for their implementation.

40. The SBSTA invited Parties, relevant international organizations, the operating entities of the financial mechanism of the Convention and other relevant financial institutions in a position to do so to provide technical and financial support to non-Annex I Parties for the implementation of the results of their TNAs.

41. The SBSTA encouraged non-Annex I Parties to take into account the outcomes of their TNAs when preparing project proposals requiring support. It noted the need for sufficient funding from various sources under and outside the Convention, including public and private, to promote mitigation and adaptation.

42. The SBSTA noted that the ultimate objective of the TNA process is to enhance action on

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<sup>12</sup> FCCC/SBSTA/2013/INF.7 (hereinafter referred to as the third synthesis report).

mitigation and adaptation, and recognized that project implementation benefits from a range of relevant elements that ensure adequate provision of requisite financial and technical support, including enabling policy and regulatory frameworks that reflect national circumstances. It recognized that, within the TNA process, planning practices that promote the involvement of all relevant actors, which could include national and international financial and business communities, are essential to generate sound project ideas.

43. The SBSTA noted that the results of TNAs provide a good basis for accelerating the implementation of adaptation and mitigation actions. It encouraged non-Annex I Parties, through their national designated entities, to take the outcomes of their TNAs into account when preparing their requests for support from the CTCN.

44. The SBSTA acknowledged the possible interlinkages between TNAs and other climate- and development-related domestic processes, such as those involving nationally appropriate mitigation actions and national adaptation plans. It encouraged non-Annex I Parties to take those interlinkages into account when preparing their nationally appropriate mitigation actions and national adaptation plans.

**Subsidiary Body for Scientific and Technological Advice**  
**Forty first session**  
**Lima, 1–8 December 2014**

Agenda item 5

**Development and transfer of technologies and implementation of the Technology Mechanism: joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**

**Proceedings**

22. The SBSTA considered this agenda item at its 1st and 2nd meetings. It had before it document FCCC/SB/2014/3. At its 1<sup>st</sup> meeting,<sup>18</sup> the SBSTA agreed to consider this agenda item together with SBI agenda sub-item 12(a) in informal consultations co-facilitated by Mr. Carlos Fuller (Belize) and Ms. Elfriede More (Austria). At its 2nd meeting, the SBSTA recommended a draft decision<sup>19</sup> for consideration and adoption at COP 20.<sup>20</sup>

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<sup>18</sup> Written statements by the Chairs of the Technology Executive Committee and the Climate Technology Centre and Network are available at <http://unfccc.int/8744>.

<sup>19</sup> For the text of the draft decision, see document FCCC/SB/2014/L.5.

<sup>20</sup> For the text as adopted, see decision 17/CP.20.

**Subsidiary Body for Scientific and Technological Advice**  
**Forty second session**  
**Bonn, 1–11 June 2015**

No agenda item on the development and transfer of technologies.

**Subsidiary Body for Scientific and Technological Advice**  
**Forty third session**  
**Paris, 1–4 December 2015**

Agenda item 5

**Development and transfer of technologies and implementation of the Technology Mechanism: joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**

**Proceedings**

17. The SBSTA considered this agenda item at its 1<sup>st</sup> and 2<sup>nd</sup> meetings. It had before it documents FCCC/SB/2015/1 and FCCC/SB/2015/INF.3. At its 1<sup>st</sup> meeting, the SBSTA agreed to consider this agenda item together with SBI agenda sub-item 10(a) in informal consultations co-facilitated by Mr. Carlos Fuller (Belize) and Ms. Elfriede More (Austria). At its 2<sup>nd</sup> meeting, the SBSTA recommended a draft decision<sup>15</sup> on this matter for consideration and adoption at COP 21.<sup>16</sup>

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<sup>15</sup> For the text of the draft decision, see document FCCC/SB/2015/L.4.

<sup>16</sup> For the text as adopted, see decision 12/CP.21.

**Subsidiary Body for Scientific and Technological Advice**  
**Forty fourth session**  
**Bonn, 16–26 May 2016**

Agenda item 4

**Technology framework under Article 10, paragraph 4, of the Paris Agreement**

**Conclusions**

23. The SBSTA initiated the elaboration of the technology framework established under Article 10, paragraph 4, of the Paris Agreement (hereinafter referred to as the technology framework), in accordance with decision 1/CP.21, paragraph 67.

24. The SBSTA noted the fruitful exchanges of initial views by Parties on the elaboration of the technology framework.<sup>19</sup>

25. The SBSTA requested the secretariat to prepare an information note on mapping climate technology development and transfer activities and initiatives under and outside the Convention relevant to the implementation of the Paris Agreement, including on the status of the implementation of the framework for meaningful and effective actions to enhance the implementation of Article 4, paragraph 5, of the Convention, as adopted by decision 4/CP.7 and enhanced by decision 3/CP.13. This would form part of the inputs to the deliberations among Parties on the elaboration of the technology framework at SBSTA 45.

26. The SBSTA invited Parties to submit their views<sup>20</sup> by 15 September 2016 on the elaboration of the technology framework, including the content, features and characteristics, the purpose and the themes of the technology framework in order for the secretariat to prepare a compilation of Parties' submissions for consideration at SBSTA 45.

27. The SBSTA agreed to continue its consideration of this matter at SBSTA 45 taking into account the information referred to in paragraphs 24–26 above.

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<sup>19</sup> A compilation of these initial views is contained in the annex to document FCCC/SBSTA/L.8.

<sup>20</sup> Parties should submit their views via the submission portal at <http://www.unfccc.int/5900>.



**Subsidiary Body for Scientific and Technological Advice**  
**Forty fifth session**  
**Marrakech, 7–15 November 2016**

Agenda item 6

**Development and transfer of technologies**

Agenda item 6(a)

**Joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**

**Proceedings**

22. The SBSTA considered this agenda sub-item at its 1<sup>st</sup> and 3<sup>rd</sup> meetings. It had before it document FCCC/SB/2016/1. At its 1<sup>st</sup> meeting, the SBSTA agreed to consider this agenda sub-item together with agenda sub-item 12(a) of the SBI in informal consultations co-facilitated by Ms. Elfriede-Anna More (Austria) and Mr. Washington Zhakata (Zimbabwe). At its 3<sup>rd</sup> meeting, the SBSTA recommended a draft decision on this matter for consideration and adoption at COP 22.<sup>20</sup>

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<sup>20</sup> See decision 15/CP.22.

## **Subsidiary Body for Scientific and Technological Advice**

### **Forty fifth session**

**Marrakech, 7–15 November 2016**

Agenda item 6

#### **Development and transfer of technologies**

Agenda item 6(b)

#### **Technology framework under Article 10, paragraph 4, of the Paris Agreement**

##### **Conclusions**

24. The SBSTA continued its deliberations on the elaboration of the technology framework established under Article 10, paragraph 4, of the Paris Agreement (hereinafter referred to as the technology framework).

25. The SBSTA noted with appreciation the views submitted by Parties on the elaboration of the technology framework<sup>21</sup> and the information note prepared by the secretariat on mapping climate technology development and transfer activities and initiatives under and outside the Convention relevant to the implementation of the Paris Agreement.<sup>22</sup>

26. The SBSTA recognized the importance of strengthening cooperation and synergies between activities and initiatives to support the implementation of the Paris Agreement.

27. The SBSTA agreed that the technology framework should be short, concise, balanced and comprehensive and allow flexibility to respond to changes over time.

28. The SBSTA also agreed that the purpose of the technology framework is as stipulated in Article 10, paragraph 4, of the Paris Agreement. It noted that the technology framework can play a strategic role in improving the effectiveness and efficiency of the work of the Technology Mechanism by addressing the transformational changes envisioned in the Paris Agreement, consistent with its Article 10, paragraph 4, and the long-term vision for technology development and transfer, referred to in its Article 10, paragraph 1.

29. The SBSTA further agreed that the initial key themes for the technology framework are:

- (a) Innovation;
- (b) Implementation;
- (c) Enabling environments and capacity-building;
- (d) Collaboration and stakeholder engagement;
- (e) Support.

30. The SBSTA invited Parties, observers and other stakeholders to submit, by 10 April 2017, their views on the principles and structure of the technology framework.<sup>23</sup>

31. The SBSTA agreed to continue, at SBSTA 46, its consideration of the elaboration of the technology framework, taking into account Parties' deliberations at this session.

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<sup>21</sup> FCCC/SBSTA/2016/MISC.4.

<sup>22</sup> FCCC/SBSTA/2016/INF.9 and Corr.1.

<sup>23</sup> Parties should submit their views via the submission portal at <http://www.unfccc.int/5900>. Observers and other stakeholders should e-mail their submissions to [secretariat@unfccc.int](mailto:secretariat@unfccc.int).

**Subsidiary Body for Scientific and Technological Advice**  
**Forty sixth session**  
**Bonn, 8–18 May 2017**

Agenda item 4

**Development and transfer of technologies: technology framework under Article 10, paragraph 4, of the Paris Agreement**

**Conclusions**

29. The SBSTA continued its deliberations on the elaboration of the technology framework established under Article 10, paragraph 4, of the Paris Agreement.

30. The SBSTA noted with appreciation the views submitted by Parties, observers and other stakeholders on the principles and structure of the technology framework.<sup>20</sup>

31. The SBSTA agreed that the principles of the technology framework, which are coherence, inclusiveness, result-oriented approach, transformational approach and transparency, should guide the Technology Mechanism in implementing the Paris Agreement.

32. The SBSTA welcomed the constructive discussions among Parties regarding the structure of the technology framework.

33. The SBSTA noted that the technology framework should strengthen the Technology Mechanism and the involvement of relevant stakeholders in accordance with their respective roles in achieving the transformative changes envisioned in the Paris Agreement, taking into account the initial key themes agreed at SBSTA 45<sup>21</sup> and the technology cycle.

34. The SBSTA also noted that the ongoing work of the Technology Executive Committee (TEC) and the Climate Technology Centre and Network (CTCN), including their work with relevant stakeholders, may be relevant for the elaboration of the technology framework and in facilitating enhanced actions on technology development and transfer. In this context, it invited the TEC and the CTCN to provide at SBSTA 47 (November 2017) information on the following:

(a) Activities that have been or are currently being undertaken, which are relevant for the implementation of the Paris Agreement, taking into account the key themes and their relation to the technology cycle;

(b) Additional activities that the TEC and the CTCN, subject to available resources, could undertake within their respective mandates and functions, individually or jointly, to implement the Paris Agreement.

35. The SBSTA agreed that the possible headings of the technology framework include, inter alia, purpose, principles and key themes.

36. The SBSTA also agreed to continue its consideration of this matter at SBSTA 47, taking into account progress made at SBSTA 45 and 46.

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<sup>20</sup> The submissions from Parties are available at <http://unfccc.int/5900> and the submissions from observer organizations and other stakeholders are available at <http://unfccc.int/7482>.

<sup>21</sup> FCCC/SBSTA/2016/4, paragraph 29.

**Subsidiary Body for Scientific and Technological Advice**

**Forty seventh session**

**Bonn, 6–15 November 2017**

Agenda item 6

**Development and transfer of technologies**

Agenda item 6(a)

**Joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**

35. The SBSTA considered this agenda sub-item at its 1<sup>st</sup> and 5<sup>th</sup> meetings. It had before it document FCCC/SB/2017/3. At its 1<sup>st</sup> meeting, the SBSTA agreed that this agenda sub-item would be considered together with the equally titled SBI 47 agenda sub-item 14(a) in informal consultations co-facilitated by Mr. Balisi Gopolang (Botswana) and Ms. Elfriede More (Austria). At its 5<sup>th</sup> meeting, the SBSTA recommended a draft decision on enhancing climate technology development and transfer through the Technology Mechanism for consideration and adoption at COP 23.<sup>31</sup>

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<sup>31</sup> Decision 15/CP.23, as orally amended by the SBI at its 5th meeting.

**Subsidiary Body for Scientific and Technological Advice**  
**Forty seventh session**  
**Bonn, 6–15 November 2017**

Agenda item 6

**Development and transfer of technologies**

Agenda item 6(b)

**Technology framework under Article 10, paragraph 4, of the Paris Agreement**

37. The SBSTA continued its deliberations on the elaboration of the technology framework established under Article 10, paragraph 4, of the Paris Agreement (hereinafter referred to as the technology framework).<sup>32</sup>

38. The SBSTA welcomed the information provided by the TEC and the CTCN on activities relevant to the elaboration of the technology framework.<sup>33</sup>

39. The SBSTA noted with appreciation that the TEC and the CTCN have already initiated activities relevant to and in support of the implementation of the Paris Agreement, including in connection with the key themes and their relation to the technology cycle.

40. The SBSTA also noted with appreciation the role of the TEC and the CTCN, and invited them to undertake additional activities to implement the Paris Agreement with overarching guidance provided by the technology framework.

41. The SBSTA welcomed the progress and the constructive discussions among Parties regarding the possible elements of the technology framework, while noting that deliberations on its roll-out are still ongoing.

42. The SBSTA requested its Chair to prepare an initial draft of the technology framework by 15 March 2018 taking into account the ongoing deliberations and progress made at SBSTA 45, 46 and this session, for consideration at SBSTA 48.

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<sup>32</sup> As requested in decision 1/CP.21, paragraph 67.

<sup>33</sup> FCCC/SBSTA/2017/INF.5.

**Subsidiary Body for Scientific and Technological Advice**

**Forty eighth session (first part)**

**Bonn, 30 April–10 May 2018**

Agenda item 5

**Development and transfer of technologies: Technology framework under Article 10, paragraph 4, of the Paris Agreement**

**Conclusions**

34. The SBSTA continued its deliberations on the elaboration of the technology framework established under Article 10, paragraph 4, of the Paris Agreement.

35. The SBSTA welcomed with appreciation the initial draft of the technology framework<sup>19</sup> prepared by its Chair as requested at SBSTA 47.<sup>20</sup>

36. The SBSTA noted the progress and the discussions among Parties regarding the technology framework at this session.

37. The SBSTA agreed to continue its elaboration of the technology framework, including its structure, at SBSTA 48.2 using the updated draft of the technology framework.<sup>21</sup>

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<sup>19</sup> Available at <http://unfccc.int/resource/docs/2018/sbsta/eng/sbsta48.informal.1.pdf>.

<sup>20</sup> FCCC/SBSTA/2017/7, paragraph 42.

<sup>21</sup> Available at <https://unfccc.int/process-and-meetings/conferences/bonn-climate-change-conference-april-2018/sessions/sbsta-48#eq-9> (version of 8 May 2018).

**Subsidiary Body for Scientific and Technological Advice  
Forty eighth session (second part)  
Bangkok, 4–9 September 2018**

Agenda item 5

**Development and transfer of technologies: Technology framework under Article 10,  
paragraph 4, of the Paris Agreement**

**III. Report on agenda items 4, 5, 9(b), 12(a–c) and 13**  
(Agenda items 4, 5, 9(b), 12(a–c) and 13)

**2. Conclusions**

12. The SBSTA took note of the further progress made at SBSTA 48.2, aiming to complete its work on the PAWP in a timely manner and to forward the outcomes to the Conference of the Parties (COP) at its twenty-fourth session (December 2018) at the latest.

13. The SBSTA requested the secretariat to update, on the basis of the outcomes of this session (see the annex),<sup>1</sup> the online platform referred to in paragraph 3 of decision 1/CP.23, which provides an overview of the work of the COP and the subsidiary and constituted bodies on the PAWP. The SBSTA agreed that the progress achieved at this session provides a useful basis for further negotiations by Parties on PAWP matters and their successful completion at COP 24.

14. The SBSTA agreed that the presiding officers of the APA, the SBI and the SBSTA should prepare a joint reflections note addressing progress made to date and identifying ways forward, including textual proposals that would be helpful for advancing Parties' deliberations. The purpose of doing so would be to address all PAWP matters so as to ensure their balanced and coordinated consideration by the APA, the SBSTA and the SBI, and to facilitate successful completion of the PAWP at COP 24. To that end, the SBSTA requested its Chair to work closely with the other presiding officers on such a note and to release it by mid-October 2018.

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<sup>1</sup> <https://unfccc.int/documents/182114>.

**Subsidiary Body for Scientific and Technological Advice**

**Forty ninth session**

**Katowice, 2–8 December 2018**

Agenda item 5 (a)

**Development and transfer of technologies: Technology framework under Article 10, paragraph 4, of the Paris Agreement**

**A. Technology framework under Article 10, paragraph 4, of the Paris Agreement**

(Agenda sub-item 5(a))

15. The SBSTA considered this PAWP-related agenda sub-item at its 1<sup>st</sup> meeting and the second part of its 3<sup>rd</sup> meeting. At its 1<sup>st</sup> meeting, the SBSTA agreed to consider the agenda sub-item in informal consultations co-facilitated by Mr. Carlos Fuller (Belize) and Ms. Mette Moglestue (Norway). At its second part of its 3<sup>rd</sup> meeting, the SBSTA considered and adopted conclusions on all the PAWP items on its agenda, including on this matter, as presented in paragraph 44 below.

**XIV. Report on matters related to the Paris Agreement work programme under agenda items 3,<sup>29</sup> 5(a), 9(b), 11 and 12  
(Agenda items 3, 5(a), 9(b), 11 and 12)**

**2. Conclusions**

44. Pursuant to the requests of the COP,<sup>31</sup> the SBSTA agreed to forward the proposals by its Chair for the outcomes of its work on the PAWP.<sup>32</sup> The proposals are being forwarded for consideration at COP 24 without prejudice to the content and form of the final outcome of the PAWP and recognizing that further work by the COP is necessary to finalize the PAWP outcome.<sup>33</sup>

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<sup>29</sup> For matters referred to in paragraphs 41, 42 and 45 of decision 1/CP.21. In relation to the 2018 report, see chapter III above.

<sup>31</sup> Decisions 1/CP.21, paragraphs 8, 10 and 11; 1/CP.22, paragraphs 8, 10, 13 and 14; and 1/CP.23, paragraph 4.

<sup>32</sup> Contained in the annex to document FCCC/SBSTA/2018/L.20.

<sup>33</sup> For the draft decisions forwarded by the COP to the CMA, see decision 1/CP.24. For the decisions as adopted, see decision 3/CMA.1.



**Subsidiary Body for Scientific and Technological Advice**  
**Forty ninth session**  
**Katowice, 2–8 December 2018**

Agenda item 5 (b)

**Development and transfer of technologies: Joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**

**B. Joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network**  
(Agenda sub-item 5(b))

16. The SBSTA considered this agenda sub-item at its 1<sup>st</sup> meeting and the first part of its 3<sup>rd</sup> meeting. It had before it document FCCC/SB/2018/2. At its 1<sup>st</sup> meeting, the SBSTA agreed that the agenda sub-item would be considered together with the equally titled SBI 49 agenda sub-item 14(b)<sup>8</sup> in informal consultations co-facilitated by Ms. Gama and Ms. Ulrika Raab (Sweden). At the first part of its 3<sup>rd</sup> meeting, the SBSTA agreed to recommend a draft decision on enhancing climate technology development and transfer throughout the Technology Mechanism for consideration and adoption at COP 24.<sup>9</sup>

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<sup>8</sup> For the report delivered by the Chair of the Technology Executive Committee see <https://unfccc.int/documents/185102>. For the report delivered by the Chair of the Advisory Board of the CTCN, see <https://unfccc.int/documents/192593>.

<sup>9</sup> Now decision 13/CP.24.