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Technology CMA decisions

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Decision 15/CMA.1

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

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10, paragraph 1, of the Paris Agreement, regarding the long-term vision for technology development and transfer,

Also recalling Article 10, paragraphs 3 and 4, of the Paris Agreement,

Further recalling decision 1/CP.21, paragraphs 67 and 68,

Recognizing the need to ensure that the operationalization of the technology framework undertaken by the Technology Mechanism to support the achievement of the Paris Agreement is consistent with the long-term vision for technology development and transfer and Article 2 of the Paris Agreement,

Noting with appreciation the work undertaken by the Subsidiary Body for Scientific and Technological Advice in elaborating the technology framework in accordance with decision 1/CP.21, paragraph 67,

1. *Adopts* the technology framework under Article 10, paragraph 4, of the Paris Agreement as elaborated in the annex;

2. *Decides* that the Technology Executive Committee and the Climate Technology Centre and Network, consistently with their respective functions, mandates and modalities of work, shall implement the technology framework in close collaboration under the guidance of the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement;

3. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network:

(a) To incorporate the guidance contained in the technology framework into their respective workplans and programmes of work, which should also include methods for the monitoring and evaluation of their activities;

(b) To include information in their joint annual report for 2019 on how they incorporated the guidance contained in the technology framework into their respective workplans and programmes of work as referred to in paragraph 3(a) above;

4. *Takes note* of the recommendation of the Technology Executive Committee and the Climate Technology Centre and Network to prepare and submit their joint annual report to both the Conference of the Parties and the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement;¹

5. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to report on the progress of their work and challenges and lessons learned in implementing the technology framework in their joint annual reports;

6. *Reiterates* the importance of the support, including financial support, that shall be provided to developing country Parties for strengthening cooperative action on technology development and transfer at different stages of the technology cycle, and agrees that the technology framework can facilitate the strengthening of such support;

7. *Decides* that the outcome of and/or recommendations resulting from the periodic assessment referred to in decision 1/CP.21, paragraph 69, shall be considered when updating the technology framework;

¹ FCCC/SB/2017/3, paragraph 43.

8. *Requests* the secretariat to facilitate the implementation of the technology framework;
9. *Also requests* that the actions of the secretariat called for in this decision be undertaken subject to the availability of financial resources.

Annex

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

I. Purpose

1. The purpose of the technology framework under the Paris Agreement is to provide overarching guidance to the work of the Technology Mechanism in promoting and facilitating enhanced action on technology development and transfer in order to support the implementation of the Paris Agreement in pursuit of the long-term vision referred to in its Article 10, paragraph 1. The long-term vision for technology development and transfer shared by Parties relates to the importance of fully realizing technology development and transfer in order to improve resilience to climate change and reduce greenhouse gas emissions.

2. The technology framework can play a strategic role in improving the effectiveness and efficiency of the work of the Technology Mechanism, which consists of the Technology Executive Committee (TEC) and the Climate Technology Centre and Network (CTCN), by addressing the transformational changes envisioned in the Paris Agreement and the long-term vision for technology development and transfer.

II. Principles

3. The principles of the technology framework, which are coherence, inclusiveness, results-oriented approach, transformational approach and transparency, should guide the Technology Mechanism in implementing the Paris Agreement, as follows:

(a) Align with the long-term vision for technology development and transfer and other provisions of the Paris Agreement, national plans and strategies under the Convention and actions undertaken by relevant institutions in the international climate regime and beyond;

(b) Be designed and implemented in a manner that facilitates the active participation of all relevant stakeholders and takes into account sustainable development, gender, the special circumstances of the least developed countries and small island developing States, and the enhancement of indigenous capacities and endogenous technologies;

(c) Be results-oriented in terms of output, outcome and impact;

(d) Address the transformational changes envisioned in the Paris Agreement;

(e) Be designed and implemented in a manner that enhances the transparency of the results, costs and process, such as through planning, resource management and reporting on activities and support.

III. Key themes

4. The following key themes for the technology framework represent focused areas of action to be undertaken under the framework:

(a) Innovation;

(b) Implementation;

(c) Enabling environment and capacity-building;

(d) Collaboration and stakeholder engagement;

(e) Support.

A. Innovation

5. As stipulated in Article 10, paragraph 5, of the Paris Agreement, accelerating, encouraging and enabling innovation is critical for an effective, long-term global response to climate change and promoting economic growth and sustainable development. To achieve the

purpose and goals of the Paris Agreement, there is a pressing need to accelerate and strengthen technological innovation so that it can deliver environmentally and socially sound, cost-effective and better-performing climate technologies on a larger and more widespread scale.

6. Actions and activities under this key theme should therefore accelerate and scale up innovation at different stages of the technology cycle, addressing both adaptation and mitigation in a balanced manner to help countries to build resilience and reduce their emissions, and be undertaken in a manner that enhances the effective participation of developing country Parties, fosters sustainable development and ensures gender responsiveness.

7. Fostering innovation could be done through new collaborative approaches to climate technology research, development and demonstration (RD&D); the creation and promotion of relevant enabling policy to incentivize and nurture a supportive environment for innovation; and the active engagement of the private sector and closer collaboration between the public and private sector.

8. Actions and activities in this area of work include:

(a) Supporting countries in incentivizing innovation by improving the policy environments, strategies, legal and regulatory frameworks, and institutional arrangements for establishing and/or strengthening their national systems of innovation;

(b) Providing information and facilitating the sharing of information on international technology RD&D partnerships and initiatives, good practices and lessons learned from countries' climate technology RD&D policies and activities;

(c) Promoting the development, deployment and dissemination of existing innovative technologies and accelerating the scale-up and diffusion of emerging climate technologies;

(d) Supporting countries in developing long-term technological transition pathways towards the widespread uptake of climate technologies in the context of climate resilience and low greenhouse gas emission development;

(e) Promoting collaboration with international technology RD&D partnerships and initiatives to stimulate climate technology RD&D;

(f) Supporting countries in initiating joint climate technology RD&D activities;

(g) Identifying ways to increase the effective participation of developing country Parties in collaborative approaches to RD&D;

(h) Promoting the engagement of the private sector in the development of new and innovative climate technologies, including through:

(i) Raising awareness of future market opportunities in climate technology innovation;

(ii) Identifying ways to incentivize their participation;

(i) Promoting partnerships between the public and private sector in the development and transfer of climate technologies.

B. Implementation

9. The Paris Agreement highlights the importance of technology for the implementation of mitigation and adaptation actions under the Agreement. The Technology Mechanism should facilitate and promote enhanced action on technology to help countries to achieve the purpose and goals of the Paris Agreement, while at the same time recognizing the importance of rapidly accelerating the transformational changes towards climate resilience and low greenhouse gas emission development.

10. Actions and activities under this key theme should therefore facilitate the implementation of collaborative technology development and transfer, build on the past and ongoing work of the

Technology Mechanism and take into account the role of North–South, South–South, triangular and regional collaboration in facilitating implementation.

11. Actions and activities under this key theme should also facilitate the implementation of mitigation and adaptation action identified using planning tools and processes such as nationally determined contributions, long-term low greenhouse gas emission development strategies, technology needs assessments (TNAs), national adaptation plans, technology road maps and other relevant policies, and facilitate overcoming challenges by implementing such action, as appropriate.

12. Actions and activities in this area of work include:

(a) Facilitating the undertaking and updating of TNAs, as well as enhancing the implementation of their results, particularly technology action plans and project ideas, and capacity-building related to TNAs;

(b) Promoting the link or alignment of TNAs with nationally determined contributions and national adaptation plans in order to increase coherence between the implementation of those national plans with national strategies to achieve climate-resilient and low-emission development;

(c) Reviewing the TNA guidelines and updating them as necessary with a view to TNAs leading to plans and implementation that are aligned with the transformational changes envisioned in the Paris Agreement;

(d) Identifying and developing recommendations on approaches, tools and means, as appropriate, for the assessment of the technologies that are ready to transfer;

(e) Identifying and developing recommendations for the enhancement of enabling environments for and the addressing of barriers to the development and transfer of socially and environmentally sound technologies.

C. Enabling environment and capacity-building

13. In the context of technology development and transfer, countries may face various challenges. Creating and enhancing enabling environments for the development and transfer of socially and environmentally sound technologies should consider the challenges faced by countries, and the different needs of the countries in overcoming such challenges.

14. Capacity-building for technology development and transfer is a cross-cutting and comprehensive issue. Although initiatives and activities on capacity-building for technology development and transfer are already being undertaken, further measures in this area are needed to develop, strengthen and enhance countries' capabilities to take effective climate action in the context of the Paris Agreement.

15. Actions and activities under this key theme should therefore foster the creation and enhancement of an enabling environment, including policy and regulatory environments for technology development and transfer, and strengthen the capacity of countries to effectively address various challenges.

16. Actions and activities in this area of work include:

(a) Enhancing public awareness on climate technology development and transfer;

(b) Facilitating countries in enhancing an investment-friendly environment, including national strategies and action plans, a policy environment, legal and regulatory frameworks and other institutional arrangements;

(c) Facilitating countries in enhancing an enabling environment to promote endogenous and gender-responsive technologies for mitigation and adaptation actions;

(d) Assisting countries in developing and implementing policies for enabling environments to incentivize the private and public sector to fully realize the development and transfer of climate technologies;

(e) Assisting governments in playing a key role in fostering private sector involvement by designing and implementing policies, regulations and standards that create enabling environments and favourable market conditions for climate technologies;

(f) Facilitating information-sharing and networking among relevant organizations and institutions to create synergies and to enable the exchange among relevant players of best practices, experience and knowledge on technology development and transfer;

(g) Formulating and analysing information on capacity-building activities at different stages of the technology cycle;

(h) Catalysing the development and enhancement of endogenous capacities for climate-related technologies and harnessing indigenous knowledge;

(i) Enhancing collaboration with existing capacity-building organizations and institutions, including those under the Convention, to create synergies in a manner that enhances efficiency and avoids duplication of work;

(j) Enhancing the capacity of national designated entities (NDEs) of all Parties, especially those in developing countries, to fulfil their roles;

(k) Enhancing the capacities of Parties to plan, monitor and achieve technological transformation in accordance with the purpose and goals of the Paris Agreement.

D. Collaboration and stakeholder engagement

17. Collaboration with and engagement of stakeholders will enhance interaction between those involved in the development and transfer of climate technology and help to share knowledge and mobilize support. In this context, stakeholders will provide important input to the work of the Technology Mechanism.

18. Therefore, the Technology Mechanism shall work in an open and inclusive, including gender-responsive, manner whereby stakeholders are invited to participate and actively engage. Collaboration with and engagement of stakeholders should take place at different stages of the technology cycle.

19. Enhanced engagement of stakeholders at the local, regional, national and global level will be beneficial for the Technology Mechanism. Further, activities for cooperation on technology development and transfer across relevant organizations, institutions and initiatives should be harmonized and synergized to avoid duplication and ensure consistency and coherence.

20. Actions and activities in this area of work include:

(a) Enhancing engagement and collaboration with relevant stakeholders, including local communities and authorities, national planners, the private sector and civil society organizations, in the planning and implementation of Technology Mechanism activities;

(b) Enhancing engagement and collaboration with the private sector, on a voluntary basis, to leverage expertise, experience and knowledge regarding effective enabling environments that support the implementation of the Paris Agreement;

(c) Enhancing engagement between NDEs and relevant stakeholders, including by providing guidance and information;

(d) Enhancing collaboration and synergy with relevant international organizations, institutions and initiatives, including academia and the scientific community, to leverage their specific expertise, experience, knowledge and information, particularly on new and innovative technologies.

E. Support

21. Article 10, paragraph 6, of the Paris Agreement states that support, including financial support, shall be provided to developing country Parties for the implementation of that Article, including for strengthening cooperative action on technology development and transfer at different stages of the technology cycle, with a view to achieving a balance between support for mitigation and adaptation.

22. The understanding of support under this key theme is broader than just financial support, as it may include all aspects of support for the implementation of Article 10 of the Paris Agreement. The support should be provided for all key themes of the technology framework, taking into account the gender perspective and endogenous and indigenous aspects.

23. The provision and mobilization of various types of support coming from a wide variety of sources are crucial to implementing Article 10 of the Paris Agreement and can enhance cooperative action on technology development and transfer.

24. Monitoring and evaluation of the Technology Mechanism can enhance the effectiveness of the support provided.

25. Actions and activities in this area of work include:

(a) Enhancing the collaboration of the Technology Mechanism with the Financial Mechanism for enhanced support for technology development and transfer;

(b) Identifying and promoting innovative finance and investment at different stages of the technology cycle;

(c) Providing enhanced technical support to developing country Parties, in a country-driven manner, and facilitating their access to financing for innovation, including for RD&D, enabling environments and capacity-building, developing and implementing the results of TNAs, and engagement and collaboration with stakeholders, including organizational and institutional support;

(d) Enhancing the mobilization of various types of support, including pro bono and in-kind support, from various sources for the implementation of actions and activities under each key theme of the technology framework;

(e) Developing and/or enhancing a system for monitoring and tracking of actions and activities undertaken, and support received, by the Technology Mechanism to implement the technology framework, with a view to such information maybe also contributing to the enhanced transparency framework referred to in Article 13 and the global stocktake referred to in Article 14 of the Paris Agreement.

Decision 16/CMA.1

Scope of and modalities for the periodic assessment referred to in paragraph 69 of decision 1/CP.21

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling decision 1/CP.21, in particular paragraph 69, and decision 1/CP.23,

1. *Adopts* the scope of and modalities for the periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer, in accordance with decision 1/CP.21, as contained in the annex;
2. *Decides* that the periodic assessment referred to in paragraph 1 above should be undertaken in a transparent, inclusive and participatory manner;
3. *Also decides* to initiate the first periodic assessment referred to in paragraph 1 above at its fourth session (November 2021) in accordance with the scope and modalities as contained in the annex, or as these may be subsequently amended, with a view to completing the first periodic assessment at its fifth session (November 2022);
4. *Further decides* that the outcomes of the periodic assessment referred to in paragraph 1 above should serve as an input to the global stocktake referred to in Article 14 of the Paris Agreement;
5. *Decides* that the outcome of the periodic assessment should guide improved effectiveness and enhanced support to the Technology Mechanism in supporting the implementation of the Paris Agreement;
6. *Requests* the Subsidiary Body for Implementation to initiate, at its fifty-first session (December 2019), consideration of the alignment between processes pertaining to the review of the Climate Technology Centre and Network¹ and the periodic assessment referred to in paragraph 1 above with a view to recommending a draft decision for consideration and adoption by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its third session (November 2020);
7. *Also requests* that the actions of the secretariat called for in this decision be undertaken subject to the availability of financial resources.

¹ In accordance with decisions 2/CP.17, 14/CP.18 and 12/CP.24.

Annex

Scope of and modalities for the periodic assessment referred to in paragraph 69 of decision 1/CP.21

I. Scope

1. The mandate is to undertake a periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer (hereinafter referred to as the periodic assessment).¹ The scope has two elements:²

(a) The effectiveness of the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer;

(b) The adequacy of support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer.

A. Effectiveness of the Technology Mechanism

2. On the effectiveness of the Technology Mechanism in supporting the implementation of the Paris Agreement, as guided by the technology framework,³ the scope may include the assessment of the impact, outputs and outcomes of the Technology Mechanism, in particular, how it has:

- (a) Facilitated the transformational changes envisioned in the Paris Agreement;
- (b) Contributed to the achievement of the long-term vision referred to in Article 10, paragraph 1, of the Paris Agreement;
- (c) Contributed to strengthening cooperative action on technology development and transfer;
- (d) Enhanced the implementation of the technology elements of nationally determined contributions and technology needs assessments;
- (e) Resulted in quantitative impacts through technical assistance, including potential emission reductions, the number of technology solutions delivered, and investments leveraged;
- (f) Undertaken its work in a cost-effective and efficient manner;
- (g) Achieved success in terms of how the bodies of the Technology Mechanism have implemented their workplans;
- (h) Overcome challenges;
- (i) Identified opportunities for improvement;
- (j) Collaborated with other stakeholders in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer;
- (k) Responded to the overarching guidance provided by the technology framework referred to in Article 10 of the Paris Agreement, including aligning its work with the themes of the technology framework;
- (l) Responded to existing mandates under the Paris Agreement and to guidance from Parties.

¹ Decision 1/CP.21, paragraph 69.

² See document FCCC/SBI/2016/8, paragraph 94.

³ Decision 15/CMA.1.

3. To undertake the assessment of effectiveness referred to in paragraph 2 above, the work of the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to cooperative action on technology development and transfer to be assessed may include:

(a) The work of the Technology Executive Committee (TEC) in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer;

(b) The work of the Climate Technology Centre and Network (CTCN) in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer, including in relation to:

(i) The implementation of its three core services: responding to requests from developing countries; fostering collaboration and sharing of information; and strengthening networks, partnerships and capacity-building;

(ii) Its institutional arrangements;

(c) The collaboration between the TEC and the CTCN, and the linkages between these bodies and institutional arrangements under the Paris Agreement;

(d) The work on technology needs assessments and the implementation of technology action plans to support the implementation of the Paris Agreement on matters relating to technology development and transfer.

B. Adequacy of the support provided to the Technology Mechanism

4. On the adequacy of the support provided to the Technology Mechanism⁴ in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer, the scope may include, but is not limited to, the assessment of:

(a) The recipients of the support provided:

(i) The TEC;

(ii) The CTCN, including the national designated entities;

(b) The sources of support provided;

(c) The types of support provided;

(d) How the support provided was used, taking into account actions at the different stages of the technology cycle:

(i) Mitigation actions;

(ii) Adaptation actions;

(iii) Cross-cutting actions;

(e) The level of support provided and whether it has changed over time;

(f) The extent to which the support has met the budgets and plans of the Technology Mechanism.

II. Modalities

5. The scope and modalities for the periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism should follow international best practices for conducting assessments. These best practices include the following five evaluation criteria categories: relevance, effectiveness, efficiency, impact and sustainability.

⁴ In line with decision 2/CP.17, paragraphs 139–141.

6. The periodic assessment is undertaken by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement (CMA). The CMA:
 - (a) Initiates the periodic assessment in accordance with paragraph 10 below;
 - (b) Provides guidance to the secretariat and requests it to prepare interim and final reports on the periodic assessment;
 - (c) Finalizes the periodic assessment, with possible outputs in accordance with paragraph 11 below.
7. The Subsidiary Body for Implementation (SBI) supports the CMA by:
 - (a) Considering the interim report and providing guidance to the secretariat for preparing the final report. The SBI does this in its first sessional period in the year after that in which the CMA initiated the assessment;
 - (b) Preparing draft recommendations for consideration and adoption by the CMA, as appropriate, based on a consideration of the final report.
8. The periodic assessment is both qualitative and quantitative:
 - (a) Qualitative elements may include reviewing existing reports and gathering information from stakeholders;
 - (b) Quantitative elements may include collecting data and undertaking statistical analysis.
9. The sources of information for the periodic assessment include, but are not limited to:
 - (a) The technology framework;
 - (b) The joint annual reports of the TEC and the CTCN to the CMA;
 - (c) Other UNFCCC reporting documents and processes relevant to the implementation of the Paris Agreement on matters relating to technology development and transfer;
 - (d) Information provided by relevant stakeholders;
 - (e) Documents and outcomes resulting from the independent reviews of the CTCN;
 - (f) Where relevant, reports of the Intergovernmental Panel on Climate Change.
10. The periodic assessment:
 - (a) Is undertaken every five years;
 - (b) Takes one year or less to complete.
11. The outputs of the periodic assessment include, as appropriate:
 - (a) A report to the CMA through the SBI;
 - (b) Recommendations of the CMA on updating the technology framework.

Decision 8/CMA.2

Enhancing climate technology development and transfer to support implementation of the Paris Agreement

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10 of the Paris Agreement,

Also recalling decision 1/CP.21, paragraphs 66 and 68, and decision 15/CMA.1,

1. *Welcomes* the joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network for 2019¹ and the efforts of the bodies in incorporating the guidance contained in the technology framework into their respective workplan and programme of work;²
2. *Notes*, recalling decision 15/CMA.1, paragraph 3, that the information on how the Technology Executive Committee and the Climate Technology Centre and Network have incorporated the guidance contained in the technology framework into their respective workplan and programme of work was not included in a comprehensive manner in the joint annual report referred to in paragraph 1 above, and requests the Technology Executive Committee and the Climate Technology Centre and Network to include this information in their joint annual report for 2020;
3. *Also notes* the areas identified by the Technology Executive Committee and the Climate Technology Centre and Network for collaboration in 2019–2022^{3,4} in supporting implementation of the Paris Agreement, and requests them to finalize in 2020 the development of activities to be undertaken jointly in those areas with a view to incorporating the guidance contained in the technology framework into these activities;
4. *Encourages* the Technology Executive Committee and the Climate Technology Centre and Network to continue to report on the progress of their work as well as on challenges and lessons learned in implementing the technology framework;
5. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to continue to implement their respective mandates with strengthened efforts on all key themes of the technology framework when serving the Paris Agreement.

¹ FCCC/SB/2019/4.

² Pursuant to decision 15/CMA.1, para. 3.

³ See the rolling workplan of the Technology Executive Committee for 2019–2022, available at <https://bit.ly/36ESdPG>.

⁴ See the programme of work of the Climate Technology Centre and Network for 2019–2022, available at https://www.ctc-n.org/sites/www.ctc-n.org/files/ctcn_programme_of_work_2019-2022.pdf.

Decision 1/CMA.3

Glasgow Climate Pact

V. Finance, technology transfer and capacity-building for mitigation and adaptation

40. *Urges* developed country Parties to provide enhanced support, including through financial resources, technology transfer and capacity-building, to assist developing country Parties with respect to both mitigation and adaptation, in continuation of their existing obligations under the Convention and the Paris Agreement, and encourages other Parties to provide or continue to provide such support voluntarily;

41. *Notes* with concern the growing needs of developing country Parties, in particular due to the increasing impacts of climate change and increased indebtedness as a consequence of the coronavirus disease 2019 pandemic;

42. *Welcomes* the first report on the determination of needs of developing country Parties related to implementing the Convention and the Paris Agreement³ and the fourth Biennial Assessment and Overview of Climate Finance Flows⁴ by the Standing Committee on Finance;

43. *Emphasizes* the need to mobilize climate finance from all sources to reach the level needed to achieve the goals of the Paris Agreement, including significantly increasing support for developing country Parties, beyond USD 100 billion per year;

44. *Notes* with deep regret that the goal of developed country Parties to mobilize jointly USD 100 billion per year by 2020 in the context of meaningful mitigation actions and transparency on implementation has not yet been met and welcomes the increased pledges made by many developed country Parties and the Climate Finance Delivery Plan: Meeting the US\$100 Billion Goal⁵ and the collective actions contained therein;

45. *Calls* upon developed country Parties to provide greater clarity on their pledges referred to in paragraph 44 above through their next biennial communications under Article 9, paragraph 5, of the Paris Agreement;

46. *Urges* developed country Parties to fully deliver on the USD 100 billion goal urgently and through to 2025 and emphasizes the importance of transparency in the implementation of their pledges;

47. *Urges* the operating entities of the Financial Mechanism, multilateral development banks and other financial institutions to further scale up investments in climate action and calls for a continued increase in the scale and effectiveness of climate finance from all sources globally, including grants and other highly concessional forms of finance;

48. *Re-emphasizes* the need for scaled-up financial resources to take into account the needs of those countries particularly vulnerable to the adverse effects of climate change and in this regard encourages relevant multilateral institutions to consider how climate vulnerabilities should be reflected in the provision and mobilization of concessional financial resources and other forms of support, including special drawing rights;

49. *Welcomes* with appreciation the initiation of deliberations on a new collective quantified goal on climate finance and looks forward to the ad hoc work programme established under decision 9/CMA.3 and to engaging constructively in the actions contained therein;

50. *Underscores* the importance of the deliberations referred to in paragraph 49 above being informed by the need to strengthen the global response to the threat of climate change in the context of sustainable development and efforts to eradicate poverty and to make finance flows

³ See document FCCC/CP/2021/10/Add.2–FCCC/PA/CMA/2021/7/Add.2.

⁴ See document FCCC/CP/2021/10/Add.1–FCCC/PA/CMA/2021/7/Add.1.

⁵ See <https://ukcop26.org/wp-content/uploads/2021/10/Climate-Finance-Delivery-Plan-1.pdf>.

consistent with a pathway towards low greenhouse gas emission and climate-resilient development taking into account the needs and priorities of developing countries and building on the work of the Standing Committee on Finance;

51. *Emphasizes* the challenges faced by many developing country Parties in accessing finance and encourages further efforts to enhance access to finance, including by the operating entities of the Financial Mechanism;

52. *Notes* the specific concerns raised with regard to eligibility and ability to access concessional forms of climate finance and re-emphasizes the importance of the provision of scaled-up financial resources, taking into account the needs of developing country Parties that are particularly vulnerable to the adverse effects of climate change;

53. *Encourages* relevant providers of financial support to consider how vulnerability to the adverse effects of climate change could be reflected in the provision and mobilization of concessional financial resources and how they could simplify and enhance access to finance;

54. *Underscores* the urgency of enhancing understanding and action to make finance flows consistent with a pathway towards low greenhouse gas emission and climate-resilient development in a transparent and inclusive manner in the context of sustainable development and poverty eradication;

55. *Calls upon* developed country Parties, multilateral development banks and other financial institutions to accelerate the alignment of their financing activities with the goals of the Paris Agreement;

56. *Acknowledges* the progress made on capacity-building, particularly in relation to enhancing the coherence and coordination of capacity-building activities towards the implementation of the Convention and the Paris Agreement;

57. *Recognizes* the need to continue supporting developing country Parties in identifying and addressing both current and emerging capacity-building gaps and needs, and to catalyse climate action and solutions to respond;

58. *Welcomes* the outcomes of the “COP26 Catalyst for Climate Action” and the strong commitments made by many Parties to take forward action on capacity-building;

59. *Also welcomes* the joint annual reports of the Technology Executive Committee and the Climate Technology Centre and Network for 2020 and 2021⁶ and invites the two bodies to strengthen their collaboration;

60. *Emphasizes* the importance of strengthening cooperative action on technology development and transfer for the implementation of mitigation and adaptation action, including accelerating, encouraging and enabling innovation, and the importance of predictable, sustainable and adequate funding from diverse sources for the Technology Mechanism;

⁶ FCCC/SB/2020/4 and FCCC/SB/2021/5.

Decision 15/CMA.3

Enhancing climate technology development and transfer to support implementation of the Paris Agreement

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10 of the Paris Agreement,

Also recalling decision 1/CP.21, paragraphs 66 and 68, and decisions 15/CMA.1 and 8/CMA.2,

1. *Welcomes* the joint annual reports of the Technology Executive Committee and the Climate Technology Centre and Network for 2020¹ and 2021² and commends their efforts to advance their work, as guided by the technology framework;
2. *Welcomes* the continuing collaboration of the Technology Executive Committee and the Climate Technology Centre and Network and invites them to strengthen their collaboration and the provision of feedback between them with a view to ensuring coherence and synergy and effective implementation of the mandates of the Technology Mechanism, inter alia, by exploring the preparation of a joint programme;
3. *Takes note* of the information provided in the joint annual report for 2020 on how the Technology Executive Committee and the Climate Technology Centre and Network have incorporated the guidance contained in the technology framework into their respective workplan and programme of work;³
4. *Acknowledges* with appreciation the commencement of the joint activities of the Technology Executive Committee and the Climate Technology Centre and Network on technology and nationally determined contributions,⁴ and on technology and gender, and the preparation of a joint publication on technology and nationally determined contributions⁵ and of joint recommendations on how to stimulate the uptake of climate technology solutions to support the implementation of nationally determined contributions;⁶
5. *Invites* Parties and relevant stakeholders, in planning and implementing action related to nationally determined contributions, to consider and build on the recommendations contained in the joint publication referred to in paragraph 4 above;
6. *Also invites* the Technology Executive Committee and the Climate Technology Centre and Network to:
 - (a) Continue their work on technology and nationally determined contributions in 2022–2023, in particular by implementing relevant recommendations in the joint publication referred to in paragraph 4 above;
 - (b) Enhance their efforts to ensure full and effective implementation of the technology framework through their respective workplan and programme of work;

¹ FCCC/SB/2020/4.

² FCCC/SB/2021/5.

³ See document FCCC/SB/2020/4, annex II.

⁴ Pursuant to decision 8/CMA.2, para. 3.

⁵ Technology Executive Committee and Climate Technology Centre and Network. 2021. Technology and Nationally Determined Contributions. Available at <https://unfccc.int/tclear/tcc/techandndc.html>.

⁶ Contained in document FCCC/SB/2021/5, annex I.

I. Activities and performance of the Technology Executive Committee in 2020 and 2021

7. *Appreciates* the flexibility of the Technology Executive Committee in adapting to new ways of working, including through the use of virtual platforms for meetings and events, and in constructively engaging with its members, task forces, observers and other relevant stakeholders, thereby facilitating progress in successfully implementing activities in its rolling workplan for 2019–2022;⁷
8. *Invites* Parties and relevant stakeholders to consider the key messages and recommendations of the Technology Executive Committee for 2020 and 2021 on technology policy in the following areas: technology needs assessment; technologies for averting, minimizing and addressing loss and damage in coastal zones; international collaborative research, development and demonstration; innovative approaches to stimulating the uptake of existing clean technology solutions; and endogenous capacities and technologies;⁸
9. *Notes with appreciation* the collaboration of the Technology Executive Committee with other constituted bodies and relevant organizations in implementing its workplan activities;
10. *Welcomes* the successful organization of the Technology Day events in 2020 and 2021⁹ to promote innovative approaches on adaptation technologies related to climate-smart agriculture and ocean and coastal adaptation and encourages the Technology Executive Committee to continue using such events to strengthen the impacts of its work and to reach target audiences;
11. *Commends* the Technology Executive Committee on its efforts to mainstream gender considerations in its work, including through a structured approach that strives to ensure that gender focal points play an active role and gender balance is achieved with regard to the speakers at all its events in 2021, and looks forward to its continuing efforts on this matter;
12. *Invites* the Technology Executive Committee to further increase its activities on outreach and stakeholder engagement to disseminate its policy and publications, especially to target audiences;
13. *Notes with concern* that the Technology Executive Committee membership composition prevents certain Parties from fully participating in its work;

II. Activities and performance of the Climate Technology Centre and Network in 2020 and 2021

14. *Welcomes* the initiative of the Climate Technology Centre and Network to adapt to operational challenges resulting from the continuing pandemic by focusing on the implementation of technical assistance requests and making use of online stakeholder engagement and capacity-building activities;
15. *Takes note* of the activities, performance and key messages of the Climate Technology Centre and Network in 2020 and 2021, including challenges faced and lessons learned;
16. *Welcomes* the efforts of the Climate Technology Centre and Network to be more inclusive by implementing its gender action plan and enhancing engagement with the constituencies of women and gender, youth, and indigenous people organizations;
17. *Notes with appreciation* that the Climate Technology Centre and Network is now the largest provider of readiness support for technology under the Green Climate Fund Readiness and Preparatory Support Programme and encourages the Climate Technology Centre and Network to continue its collaboration through the Readiness and Preparatory Support Programme and to extend its engagement through the Project Preparation Facility with the Green Climate Fund;

⁷ Available at <https://unfccc.int/ttclear/tec>.

⁸ See documents FCCC/SB/2020/4 and FCCC/SB/2021/5.

⁹ https://unfccc.int/ttclear/events/2020/2020_event07.

18. *Welcomes with appreciation* the establishment of the Climate Technology Centre and Network partnership and liaison office in Songdo, Republic of Korea, which will focus its work on, inter alia, collaborating with the Green Climate Fund and research and development, and invites the Climate Technology Centre and Network to report on experience and lessons learned therefrom;
19. *Welcomes with appreciation* the continuing collaboration between the Climate Technology Centre and Network and the Adaptation Fund, including through the Adaptation Fund Climate Innovation Accelerator, and encourages the Climate Technology Centre and Network to further strengthen its collaboration with the Adaptation Fund in this regard;
20. *Welcomes* the action of the Climate Technology Centre and Network to engage with the private sector in developing and implementing its programme of work, including the delivery of technical assistance and capacity development through small and medium-sized enterprises, and its efforts to enhance engagement with the private sector and Network members;
21. *Invites* the Climate Technology Centre and Network to continue its efforts to support developing countries in preparing and updating technology needs assessments and technology action plans, as well as their implementation, upon request;
22. *Also invites* the Climate Technology Centre and Network to continue providing support for enhancing the capacity of national designated entities in developing countries to enable them to fulfil their roles.

Decision 16/CMA.3

Alignment between processes pertaining to the review of the Climate Technology Centre and Network and the periodic assessment referred to in paragraph 69 of decision 1/CP.21

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling decisions 2/CP.17, 14/CP.18, 1/CP.21, 15/CMA.1 and 16/CMA.1,

1. *Welcomes with appreciation* the constructive engagement of Parties in considering matters relating to the alignment between processes pertaining to the review of the Climate Technology Centre and Network¹ and the periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer (hereinafter referred to as the periodic assessment of the Technology Mechanism) under the Subsidiary Body for Implementation, in accordance with decision 16/CMA.1, paragraph 6;
2. *Notes* the information note prepared by the secretariat on possible options, and their implications, for aligning processes pertaining to the independent review of the Climate Technology Centre and Network and the periodic assessment of the Technology Mechanism;²
3. *Acknowledges* the importance of the effectiveness, efficiency and complementarity of work on aligning processes pertaining to the independent review of the Climate Technology Centre and Network and the periodic assessment of the Technology Mechanism;
4. *Underlines* the importance of the outcome of each of the two processes under consideration in enhancing the effectiveness of the Technology Mechanism in meeting its objectives;
5. *Acknowledges* the need to continue the respective processes for conducting the periodic assessment of the Technology Mechanism under the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement and the independent review of the Climate Technology Centre and Network under the Conference of the Parties;
6. *Agrees* to align the periodicity of the periodic assessment of the Technology Mechanism and the independent review of the Climate Technology Centre and Network;
7. *Requests* the Subsidiary Body for Implementation to initiate, at its sixty-second session (2025), consideration of matters relating to the alignment between processes pertaining to the independent review of the Climate Technology Centre and Network and the periodic assessment of the Technology Mechanism with a view to recommending a draft decision on this matter for consideration and adoption by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its eighth session (2026).

¹ In accordance with decisions 2/CP.17, 14/CP.18 and 12/CP.24.

² FCCC/SBI/2020/INF.5.

Decision 17/CMA.3

First periodic assessment referred to in paragraph 69 of decision 1/CP.21

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling decisions 1/CP.21, 15/CMA.1 and 16/CMA.1,

Also recalling that the outcomes of the first periodic assessment referred to in paragraph 1 of decision 16/CMA.1 should serve as input to the global stocktake referred to in Article 14 of the Paris Agreement,

1. *Initiates* the first periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer in accordance with the scope and modalities contained in the annex to decision 16/CMA.1 with a view to completing it at its fourth session (November 2022);
2. *Requests* the secretariat to prepare an interim report on the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer for consideration by the Subsidiary Body for Implementation at its fifty-sixth session (June 2022).

Decision 1/CMA.4

Sharm el-Sheikh Implementation Plan: Technology transfer and deployment

X. Technology transfer and deployment

69. *Welcomes with appreciation* the first joint work programme of the Technology Executive Committee and the Climate Technology Centre and Network,¹⁹ for 2023–2027, which will facilitate the transformational change needed to achieve the goals of the Convention and the Paris Agreement, invites Parties and stakeholders to cooperate and engage with the Technology Executive Committee and the Climate Technology Centre and Network to support the implementation of the joint work programme activities, including on technology needs assessments, action plans and road maps, acknowledges the findings in the final report on the first periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement²⁰ and decides that the main challenges identified therein should be considered under the global stocktake;

70. *Highlights* the importance of cooperation on technology development and transfer and innovation in implementing the joint work programme activities.

¹⁹ See <https://unfccc.int/tclear/tec/documents.html>.

²⁰ FCCC/SBI/2022/13.

Decision 19/CMA.4

Enhancing climate technology development and transfer to support implementation of the Paris Agreement

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10 of the Paris Agreement,

Also recalling decision 1/CP.21, paragraphs 66 and 68, and decisions 15/CMA.1, 8/CMA.2 and 15/CMA.3,

1. *Notes* the joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network for 2022¹ and their efforts to advance their work, as guided by the technology framework;
2. *Welcomes* the collaboration of the Technology Executive Committee and the Climate Technology Centre and Network in their joint work in 2022² and *invites* them to continue undertaking joint work and enhance their exchange of systematic feedback with a view to ensuring coherence and synergy and effective implementation of the technology framework;
3. *Welcomes with appreciation* the first joint work programme of the Technology Executive Committee, for 2023–2027,³ developed to strengthen the Technology Mechanism to support the transformational changes needed to achieve the goals of the Paris Agreement;
4. *Welcomes* the key joint activities and common areas of work outlined in the joint work programme: technology road maps, digitalization, national systems of innovation, water–energy–food systems, energy systems, buildings and infrastructure, business and industry, and technology needs assessment;
5. *Invites* the Technology Executive Committee and the Climate Technology Centre and Network to jointly pursue collaborative partnerships and strategic engagement with bodies, processes and initiatives under and outside the Convention and the Paris Agreement, including in the private sector, with a view to facilitating the implementation of all activities under the joint work programme;
6. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to include information in their joint annual reports to the Conference of the Parties and the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement on activities and actions under the technology framework that have been implemented under the joint work programme;
7. *Notes with appreciation* the collaboration of the Technology Executive Committee and the Climate Technology Centre and Network in raising awareness of the role of climate technologies in implementing nationally determined contributions and *looks forward* to the continuation thereof;
8. *Commends* the continued efforts of the Technology Executive Committee and the Climate Technology Centre and Network in mainstreaming gender considerations in their work and *looks forward* to the swift finalization of the global rosters of female experts in the area of climate technology and of female and male experts on gender and climate change;
9. *Welcomes* the collaboration of the Technology Executive Committee and the Climate Technology Centre and Network with the operating entities of the Financial Mechanism and *strongly encourages* the two bodies to continue such collaboration with a view to enhancing the

¹ FCCC/SB/2022/4.

² See the table on joint activities of the Technology Executive Committee and the Climate Technology Centre and Network for 2022–2023, available at <https://unfccc.int/ttclear/tcc/>.

³ Available at <https://unfccc.int/ttclear/tcc/documents.html>.

capacity of developing countries to prepare project proposals and facilitating their access to available funding for technology development and transfer;

10. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to continue to enhance their efforts to monitor and evaluate the impacts of their work, including identifying new ways to invite feedback from national designated entities on the impact of the work of the Technology Mechanism such as through more practical and effective surveys;

11. *Expresses* its appreciation for the voluntary financial contributions provided by Parties for supporting the work of the Technology Executive Committee and the Climate Technology Centre and Network to date and *encourages* the provision of enhanced support for the work of the Technology Executive Committee and the Climate Technology Centre and Network through financial and other resources;

12. *Notes* that the joint annual report referred to in paragraph 1 above does not contain information on how the Technology Executive Committee and the Climate Technology Centre and Network responded to mandates of Parties in the implementation of their work and *requests* the two bodies to include such information in their joint annual reports;

13. *Encourages* the secretariats supporting the Technology Executive Committee and the Climate Technology Centre and Network to collaborate closely, including on resource mobilization, to ensure effective implementation of the joint work programme;

14. *Requests* the secretariat to ensure that the relevant activities of the UNFCCC Global Innovation Hub contribute to supporting the implementation of the joint work programme as guided by the technology framework to avoid duplication and fragmentation of efforts in the area of innovation;

I. Activities and performance of the Technology Executive Committee in 2022

15. *Invites* Parties and relevant stakeholders to consider the relevant key messages and the implementation of recommendations of the Technology Executive Committee for 2022 and *also invites* the Technology Executive Committee and the Climate Technology Centre and Network to consider the recommendations addressed directly to them;

16. *Encourages* the Technology Executive Committee to continue its efforts to enhance its visibility and outreach to Parties, including through their respective national designated entities, UNFCCC constituted bodies and other relevant stakeholders and maximize the uptake of its recommendations;

17. *Notes with concern* that gender balance in the composition of the Technology Executive Committee has not yet been achieved;

18. *Reiterates* its concern that the composition of the Technology Executive Committee prevents certain Parties from fully participating in its work;⁴

II. Activities and performance of the Climate Technology Centre and Network in 2022

19. *Encourages* the Climate Technology Centre and Network to continue providing support to developing countries, on request, including those that have not yet received support for technical assistance from the Climate Technology Centre and Network, including by mobilizing private sector entities and Network members, with a view to building and strengthening the capacity of developing countries, to assess their technology needs, develop and implement technology action plans, scale up technical assistance and access available funding for implementation of mitigation and adaptation actions;

20. *Welcomes* the launch of the Partnership and Liaison Office in Songdo, Republic of Korea, and *requests* the Climate Technology Centre and Network to include information on experience

⁴ Decision 15/CMA.3, para. 13.

in and lessons learned from the operation of its Partnership and Liaison Office in Songdo in its annual reports;

21. *Notes with concern* that securing funding for implementing the mandates of the Technology Mechanism remains an important challenge and *encourages* the provision of enhanced support to the Technology Mechanism;

22. *Appreciates* the efforts of the Climate Technology Centre and Network to mobilize a diverse range of resources, including pro bono and in-kind contributions, and *requests* the Climate Technology Centre and Network to finalize and implement a resource mobilization and partnership strategy and to include information thereon in its annual reports;

23. *Welcomes with appreciation* the reaccreditation of the United Nations Environment Programme and the upgrade to the medium-sized project budget category by the Green Climate Fund Board, for the submission of funding proposals to the Fund;

24. *Welcomes* the ongoing work by the Climate Technology Centre and Network on the development of two medium-sized projects and *encourages* the Climate Technology Centre and Network to consider regional balance in the development of future projects, and to report on the use of the Project Preparation Facility under the Green Climate Fund in its annual reports.

Decision 20/CMA.4

First periodic assessment referred to in paragraph 69 of decision 1/CP.21

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling decisions 1/CP.21, 15/CMA.1, 16/CMA.1 and 17/CMA.3,

Also recalling decision 15/CMA.1, paragraph 7, according to which the outcomes of and/or recommendations resulting from the first periodic assessment referred to in paragraph 69 of decision 1/CP.21 shall be considered when updating the technology framework,

Further recalling decision 16/CMA.1, paragraph 4, according to which the outcomes of the first periodic assessment referred to in paragraph 1 of that decision should serve as an input to the global stocktake referred to in Article 14 of the Paris Agreement,

1. *Acknowledges* the findings of the final report on the first periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer¹ and invites the Technology Executive Committee and the Climate Technology Centre and Network to implement the recommendations therein when undertaking the joint work programme of the Technology Mechanism for 2023–2027;²
2. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to include in their joint annual report for 2023 and in subsequent reports to the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement, through the subsidiary bodies, information on actions undertaken in response to the recommendations contained in the final report referred to in paragraph 1 above;
3. *Welcomes* the joint work programme for 2023–2027 of the Technology Executive Committee and the Climate Technology Centre and Network, which ensures synergies and complementarity between the work of the Technology Executive Committee and the Climate Technology Centre and Network and strengthens the implementation of the mandates of the Technology Mechanism;
4. *Notes with concern* that securing funding for implementing the mandates of the Technology Mechanism remains an important challenge and encourages those in the position to do so to provide enhanced support to the Technology Mechanism;
5. *Also encourages* the Climate Technology Centre and Network to continue matchmaking for the purpose of securing funding for the implementation of projects after technical assistance is provided to developing countries;
6. *Further encourages* the Technology Executive Committee and the Climate Technology Centre and Network to continue their efforts to enhance resource mobilization so as to meet the costs associated with their activities for implementing their respective mandates and providing support to developing countries in implementing mitigation and adaptation action;³
7. *Invites* Parties, the Technology Executive Committee and the Climate Technology Centre and Network to explore ways of providing enhanced technical and logistical support to national designated entities, including through collaboration with the public and private sector;
8. *Decides* that the main challenges identified in the periodic assessment referred to in paragraph 1 above be given consideration in the global stocktake;

¹ FCCC/SBI/2022/13.

² Available at <https://unfccc.int/tc/tec/documents.html>.

³ In response to the recommendation set out in document FCCC/SBI/2022/13, para. 75.

9. *Requests* the secretariat to consider experience in and lessons learned from undertaking the first periodic assessment in preparing for the second periodic assessment, including the incorporation of the activities under the technology framework, the implementation of technology action plans and the levels of support at different stages of the technology cycle, and taking into account the concern regarding membership composition of the Technology Executive Committee;⁴
10. *Encourages* the Climate Technology Centre and Network, when implementing its programme of work 2023-2027,⁵ to make use of pilot and demonstration projects in identifying local champions who could showcase the successful implementation of technology solutions;
11. *Requests* the Subsidiary Body for Implementation to initiate at its sixty-fourth session (2026) the second periodic assessment of the effectiveness and adequacy of the support provided to the Technology Mechanism in supporting the implementation of the Paris Agreement on matters relating to technology development and transfer in accordance with the scope of and modalities for the periodic assessment⁶ with a view to it being completed by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its ninth session (2027).

⁴ Expressed in decision 15/CMA.3, para. 13.

⁵ Available at: <https://www.ctc-n.org/about-ctcn/founding-documents>.

⁶ Contained in decision 16/CMA.1, annex.

Decision 1/CMA.5

Outcome of the first global stocktake

II. C. Means of implementation and support

2. Technology development and transfer

101. *Underlines* the fundamental role of technology development and transfer, endogenous technologies and innovation in facilitating urgent adaptation and mitigation action aligned with achieving the goals of the Paris Agreement and sustainable development;

102. *Welcomes* the progress of the Technology Mechanism, which is comprised of the Technology Executive Committee and the Climate Technology Centre and Network, including through its first joint work programme, for 2023–2027, in supporting technology development and transfer through policy recommendations, knowledge-sharing, capacity-building and technical assistance;

103. *Highlights* the persistent gaps and challenges in technology development and transfer and the uneven pace of adoption of climate technologies around the world and *urges* Parties to address these barriers and strengthen cooperative action, including with non-Party stakeholders, particularly with the private sector, to rapidly scale up the deployment of existing technologies, the fostering of innovation and the development and transfer of new technologies;

104. *Highlights* the importance of predictable, sustainable and adequate support for implementing the mandates of the Technology Mechanism and for supporting national designated entities and of the delivery on the Climate Technology Centre and Network resource mobilization and partnership strategy for 2023–2027 as referred to in decision 14/CMA.5;

105. *Encourages* the Technology Executive Committee, the Climate Technology Centre and Network and the operating entities of the Financial Mechanism to enhance the involvement of stakeholders as they take action to strengthen the linkages between the Technology Mechanism and the Financial Mechanism;

106. *Emphasizes* the importance of ensuring the availability of and access to enhanced financial and capacity-building support for developing countries, in particular the least developed countries and small island developing States, for implementing and scaling up prioritized technology measures, including those identified in technology needs assessments, technology action plans and long-term low greenhouse gas emission development strategies that align with national circumstances;

107. *Encourages* inclusive international cooperation on research, development and demonstration as well as innovation, including in hard-to-abate sectors, with a view to strengthening endogenous capacities and technologies and fostering national systems of innovation in line with the findings of the Intergovernmental Panel on Climate Change;

108. *Recognizes* that achieving the long-term goals of the Paris Agreement requires the rapid and scaled-up deployment and adoption of existing clean technologies and accelerated innovation, digital transformation and development, demonstration and dissemination of new and emerging technologies, as well as increased access to those technologies, supported by appropriate enabling frameworks and international cooperation;

109. *Notes* the Technology Mechanism initiative on artificial intelligence for climate action, the aim of which is to explore the role of artificial intelligence as a technological tool for advancing and scaling up transformative climate solutions for adaptation and mitigation action in developing countries, with a focus on the least developed countries and small island developing States, while also addressing the challenges and risks posed by artificial intelligence, as referred to in decision 14/CMA.5;

110. *Decides* to establish a technology implementation programme, supported by, inter alia, the operating entities of the Financial Mechanism, to strengthen support for the implementation

of technology priorities identified by developing countries, and to address the challenges identified in the first periodic assessment of the Technology Mechanism,⁸ and invites the Subsidiary Body for Implementation at its sixty-first session (November 2024) to take into account the technology implementation programme in its consideration of the Poznan strategic programme on technology transfer, with a view to recommending a draft decision on the matter for consideration and adoption by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its sixth session;

⁸ See decision 20/CMA.4, para. 8.

Decision 14/CMA.5

Enhancing climate technology development and transfer to support implementation of the Paris Agreement

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10 of the Paris Agreement,

Also recalling decision 1/CP.21, paragraphs 66 and 68, and decisions 15/CMA.1, 8/CMA.2, 15/CMA.3 and 19/CMA.4,

1. *Welcomes* the joint annual report of the Technology Executive Committee and the Climate Technology Centre and Network for 2023¹ and the progress of the implementation of the joint work programme of the Technology Mechanism for 2023–2027² and the technology framework;
2. *Also welcomes* the enhanced coordination and collaboration between the Technology Executive Committee and the Climate Technology Centre and Network, including through their adoption of new and improved modalities of work for advancing implementation of the joint work programme of the Technology Mechanism for 2023–2027 across their joint activities, including releasing the 2023 edition of their joint publication on technology and nationally determined contributions,³ and common areas of work;⁴
3. *Invites* the Technology Executive Committee and the Climate Technology Centre and Network to continue efforts to enhance the exchange of systematic feedback on their work, including by the Technology Executive Committee taking into consideration lessons learned in relation to the provision of technical assistance by the Climate Technology Centre and Network, and the Climate Technology Centre and Network taking into consideration the policy recommendations of the Technology Executive Committee in providing technical assistance to support implementation of the Paris Agreement;
4. *Welcomes* the engagement of the Technology Executive Committee and the Climate Technology Centre and Network with national designated entities to provide technical and logistical support to them,⁵ including through regional forums for national designated entities, and invites the Technology Executive Committee and the Climate Technology Centre and Network to report on the progress of the support provided;
5. *Also invites* Parties to explore ways of enhancing the provision of technical and logistical support to their national designated entities and improving national-level coordination, including of national designated entities with operational focal points of the Global Environment Facility, national designated authorities of the Green Climate Fund, and designated authorities and national implementing entities of the Adaptation Fund;
6. *Notes* the Technology Mechanism initiative on artificial intelligence for climate action,⁶ the aim of which is to explore the role of artificial intelligence as a technological tool for advancing

¹ FCCC/SB/2023/3.

² Available at <https://unfccc.int/tclear/tec/workplan>.

³ UNFCCC. 2023. *Technology and Nationally Determined Contributions. Stimulating the Uptake of Technologies in Support of Nationally Determined Contribution Implementation*. Bonn: UNFCCC. Available at <https://unfccc.int/tclear/tec/techandndc.html>.

⁴ Namely national systems of innovation, water–energy–food systems, energy systems, buildings and resilient infrastructure, business and industry, and technology needs assessments.

⁵ As per decision 20/CMA.4, para. 7.

⁶ See https://unfccc.int/tclear/acl_users/MultiPAS/artificial_intelligence.

and scaling up transformative climate solutions for mitigation and adaptation action in developing countries, with a focus on the least developed countries and small island developing States, while also addressing the challenges and risks posed by artificial intelligence, such as energy consumption, data security and the digital divide;

7. *Requests* the Technology Executive Committee and the Climate Technology Centre and Network to implement the initiative referred to in paragraph 6 above in a manner that gives special attention to the capacity needs for its use and consider how it can support the implementation of technology needs assessment outcomes and the joint work programme of the Technology Mechanism for 2023–2027;

8. *Also requests* the Technology Executive Committee and the Climate Technology Centre and Network to enhance awareness of artificial intelligence and its potential role in, as well as its impacts on, the implementation of the outcomes of technology needs assessments and the joint work programme of the Technology Mechanism for 2023–2027;

9. *Notes* the insufficient transfer and deployment of technology in developing countries, *encourages* the Technology Executive Committee and the Climate Technology Centre and Network to continue collaborating with the operating entities of the Financial Mechanism and relevant financial institutions with a view to enhancing the capacity of developing countries to prepare project proposals, facilitating their access to available funding for technology development and transfer and for implementing the results of their technology needs assessments and the technical assistance of the Climate Technology Centre and Network, and strengthening the transfer and deployment of technology, and *calls* for regional balance in this work;

10. *Commends* the Technology Executive Committee and the Climate Technology Centre and Network on their continued efforts to mainstream gender considerations in the implementation of the joint work programme of the Technology Mechanism for 2023–2027, including the launch of the global roster of gender and climate change technology experts⁷ and the endorsement of the Climate Technology Centre and Network gender policy and action plan, and *invites* them to continue mainstreaming gender considerations in their work;

11. *Notes with appreciation* the information prepared by the Technology Executive Committee and the Climate Technology Centre and Network on their action taken in response to the mandates from the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its fourth session and the subsidiary bodies at their fifty-seventh sessions⁸ and *invites* the Technology Executive Committee and the Climate Technology Centre and Network to provide such information in their joint annual reports;

12. *Expresses appreciation* for the voluntary financial and other contributions received for the work under the Technology Mechanism and *encourages* the provision of enhanced support for that work through financial and other resources;

13. *Notes with concern* that gender balance in the composition of the Technology Executive Committee and the Advisory Board of the Climate Technology Centre and Network has not yet been achieved;

14. *Welcomes* the finalization of the Climate Technology Centre and Network resource mobilization and partnership strategy for 2023–2027,⁹ which has the aim of diversifying the

⁷ See <https://www.ctc-n.org/network/gender-climate-expert-roster>.

⁸ See the document entitled "Responses from the TEC and the CTCN to guidance from Parties in 2023", available at <https://unfccc.int/tclear/tec/documents.html> (under annual reports and related documents).

⁹ See Climate Technology Centre and Network Advisory Board document AB/2023/22/22.1, available at <https://www.ctc-n.org/calendar/events/22nd-ctcn-advisory-board-meeting> (under documents).

resources of the Climate Technology Centre and Network and ensuring its funding is adequate, predictable and flexible;

15. *Encourages* the Climate Technology Centre and Network, its host the United Nations Environment Programme and the UNFCCC secretariat to collaborate on resource mobilization to ensure effective implementation of the joint work programme of the Technology Mechanism for 2023–2027 and *requests* the Technology Executive Committee and the Climate Technology Centre and Network to include information on the progress of their efforts in their next joint annual report;

16. *Acknowledges* the role of the Climate Technology Centre and Network Partnership and Liaison Office in enhancing interaction among national designated entities and with the Green Climate Fund, and in providing technical support to developing countries across the core service areas of the Climate Technology Centre and Network and *requests* the Climate Technology Centre and Network to include information on the major outcomes of and lessons learned by its partnership and liaison office in its annual reports;

17. *Notes with concern* that securing funding for implementing the mandates of the Technology Mechanism and its joint work programme for 2023–2027 remains a challenge, especially for the Climate Technology Centre and Network, and *encourages* the provision of enhanced support.

Decision 17/CMA.6

Enhancing climate technology development and transfer to support implementation of the Paris Agreement

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement,

Recalling Article 10 of the Paris Agreement,

Also recalling decision 1/CP.21, paragraphs 66 and 68, and decisions 15/CMA.1, 8/CMA.2, 15/CMA.3, 19/CMA.4 and 14/CMA.5,

1. *Welcomes with appreciation* the efforts of the Technology Executive Committee and the Climate Technology Centre and Network in implementing the joint work programme of the Technology Mechanism for 2023–2027¹ and *acknowledges* the progress made in executing their respective programmes and plans;
2. *Welcomes with appreciation* the enhanced collaboration and coordination between the Technology Executive Committee and the Climate Technology Centre and Network, including their organization of joint events and systematic exchange of feedback on one another's work in undertaking activities² under their joint work programme for 2023–2027, and *encourages* them to continue collaboration to maximize the impacts of their work;
3. *Affirms* paragraphs 3–5 of decision 10/CP.29;
4. *Decides* to participate in conducting a review of the functions³ and in deciding whether to extend the term⁴ of the Climate Technology Centre at its seventh session (November 2025), taking into account the findings of the first and second independent reviews of the effective implementation of the Climate Technology Centre and Network⁵ and the findings of the first periodic assessment of the effectiveness and adequacy of the support provided to the bodies of the Technology Mechanism in supporting implementation of the Paris Agreement on matters relating to technology development and transfer;⁶
5. *Requests* the Subsidiary Body for Implementation to initiate, at its sixty-second session (June 2025), the review referred to in paragraph 4 above with a view to recommending a draft decision on this matter for consideration and adoption by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its seventh session.

¹Available at <https://unfccc.int/tc/learn/tcclear/tec/workplan>.

²In the areas of national systems of innovation, water–energy–food systems, energy systems, buildings and resilient infrastructure, business and industry, and technology needs assessments.

³See decision 1/CP.16, para. 123.

⁴As per decision 2/CP.17, annex VII, para. 23.

⁵Contained in documents FCCC/CP/2017/3 and FCCC/CP/2021/3 respectively.

⁶Contained in document FCCC/SBI/2022/13.

Decision 18/CMA.6

Technology implementation programme

The Conference of the Parties serving as the meeting of the Parties to the Paris Agreement

1. *Decides* to launch a process for elaborating the technology implementation programme;
 2. *Requests* the Subsidiary Body for Implementation to consider this matter at its sixty-second session (June 2025) based on the results of Parties' deliberations thereon at this session, as contained in the draft text available on the UNFCCC website,¹ while recognizing that the draft text does not represent consensus among Parties, with a view to recommending a draft decision for consideration and adoption by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement at its seventh session (November 2025) with a view to informing and further elaborating the technology implementation programme.
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¹ <https://unfccc.int/documents/644121>.