

## Call for input on

### **Actions undertaken by accredited observer organizations relevant to the Technology Executive Committee in performing its functions.**

#### **Background**

1. The COP at its sixteenth session decided to establish a Technology Mechanism to enhance action on technology development and transfer to support action on mitigation and adaptation in order to achieve the full implementation of the Convention. The Technology Mechanism comprises a Technology Executive Committee (TEC) and a Climate Technology Centre and Network. The TEC facilitates the effective implementation of the Technology Mechanism, consistent with its functions.
2. In accordance with decision 1/CP.16, the functions of the TEC are to:<sup>1</sup>
  - a) Provide an overview of technological needs and analysis of policy and technical issues related to the development and transfer of technologies for mitigation and adaptation;
  - b) Consider and recommend actions to promote technology development and transfer, in order to accelerate action on mitigation and adaptation;
  - c) Recommend guidance on policies and programme priorities related to technology development and transfer with special consideration given to the least developed country Parties;
  - d) Promote and facilitate collaboration on the development and transfer of technologies for mitigation and adaptation between governments, the private sector, non-profit organizations and academic and research communities;
  - e) Recommend actions to address the barriers to technology development and transfer in order to enable enhanced action on mitigation and adaptation;
  - f) Seek cooperation with relevant international technology initiatives, stakeholders and organizations, and promote coherence and cooperation across technology activities, including activities under and outside of the Convention;
  - g) Catalyse the development and use of technology road maps or action plans at the international, regional and national levels through cooperation between relevant stakeholders, particularly governments and relevant organizations or bodies, including the development of best practice guidelines as facilitative tools for action on mitigation and adaptation.
3. Drawing on the agreed functions of the TEC as decided by the COP, the TEC considered the following items as the six key elements of its modalities:<sup>2</sup>
  - a) Analysis and synthesis;
  - b) Policy recommendations;
  - c) Facilitation and catalysing;

---

<sup>1</sup> Decision 1/CP.16, paragraph 121.

<sup>2</sup> FCCC/CP/2011/8, paragraph 11.

- d) Linkage with other institutional arrangements;
- e) Engagement of stakeholders;
- f) Information and knowledge sharing.

4. The modalities related to these six key elements are provided in the annex.

### **Call for input**

The TEC, at its third meeting, agreed to launch a call for input on actions undertaken by accredited observer organizations relevant to the TEC in performing its functions. The inventory of actions undertaken by these organizations would provide a basis for the TEC to identify relevant organizations for cooperation. The input from this call will be considered at the fourth meeting of the TEC.

**Observer organizations accredited by the UNFCCC are invited to provide their input on actions undertaken by these organizations which are relevant to the TEC in performing its functions by using the template in the annex. Kindly send your input through email to [tec@unfccc.int](mailto:tec@unfccc.int) by 31 July 2012.**

**Annex: Template for the call for input**

**Key element 1: Analysis and synthesis**

<b>Technology Executive Committee</b>
<b>Key element 1: Analysis and synthesis</b>
<b>Key modalities:</b> <ul style="list-style-type: none"><li>a) Producing periodic technology outlooks; collating, collecting and synthesizing a range of information on technology research and development and other technology-related activities from various sources, including, but not limited to, national communications, nationally determined technology needs and technology needs assessments, national adaptation programmes of action, nationally appropriate mitigation actions, national adaptation plans, and technology road maps and action plans; and examining the policy implications and opportunities for advancing technology development and transfer;</li><li>b) Producing a series of technical papers on specific policies and technical issues, including those arising from technology needs assessments;</li><li>c) Conducting a regular overview of existing technology development, transfer initiatives, activities and programmes with a view to identifying key achievements and gaps, good practices and lessons learned.</li></ul>

<b>Organization name:</b>
<b>Key element 1: Analysis and synthesis</b>
<b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b> <ul style="list-style-type: none"><li>a) .....</li><li>b) .....</li><li>c) .....</li></ul>

## Key element 2: Policy recommendations

<b>Technology Executive Committee</b>
<b>Key element 2: Policy recommendations</b>
<b>Key modalities:</b> <ul style="list-style-type: none"><li>a) Recommending to the COP, or other relevant bodies under the Convention, actions to promote technology development and transfer and to address barriers;</li><li>b) Recommending guidance on policies and programme priorities related to technology development and transfer, with special consideration given to the least developed country Parties.</li></ul>

<b>Organization name:</b>
<b>Key element 2: Policy recommendations</b>
<b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b> <ul style="list-style-type: none"><li>a) .....</li><li>b) .....</li><li>c) .....</li></ul>

### Key element 3: Facilitation and catalysing

<b>Technology Executive Committee</b>
<b>Key element 3: Facilitation and catalysing</b>
<p><b>Key modalities:</b></p> <ul style="list-style-type: none"><li>a) Promoting and collaborating with relevant organizations, resources permitting, in organizing workshops and forums to increase the opportunities for sharing experience with experts in developing and implementing technology road maps and action plans as well as other technology-related activities;</li><li>b) Establishing an inventory of existing collaboration activities and a regular review process, with a view to identifying key achievements and gaps, good practices and lessons learned;</li><li>c) Making recommendations on actions to promote collaboration;</li><li>d) Making recommendations on best practices and relevant tools to develop technology road maps and action plans;</li><li>e) Establishing an inventory of technology road maps and action plans;</li><li>f) Making recommendations on concrete actions, such as an international process for the development of technology road maps and action plans as well as support required to enhance the development of these items, and in particular capacity-building programmes that may be appropriate.</li></ul>

<b>Organization name:</b>
<b>Key element 3: Facilitation and catalysing</b>
<p><b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b></p> <p><b>IEA Technology Roadmaps:</b></p> <p>There is a pressing need to accelerate the development of low-carbon energy technologies in order to address the global challenges of energy security, climate change and economic growth. This challenge was acknowledged by ministers from G8 countries at their meeting in June 2008 in Aomori, Japan where they declared the wish to have IEA prepare roadmaps to advance innovative energy technology. It was reconfirmed by IEA member countries.</p> <p>To achieve this ambitious goal, the IEA is developing a series of global low-carbon energy technology roadmaps covering the most important technologies. The IEA is leading the process, under international guidance and in close consultation with government and industry. The overall aim is to advance global development and uptake of key technologies to reach a 50% reduction in energy-related CO<sub>2</sub> emissions by 2050. The roadmaps identify priority actions for governments, industry, financial partners and civil society that will advance technology development and uptake to achieve international climate change goals.</p> <p>Each roadmap represents international consensus on milestones for technology development,</p>

legal/regulatory needs, investment requirements, public engagement/outreach and international collaboration. The following definition is used by the IEA in its technology roadmaps programme: A technology roadmap is a dynamic set of technical, policy, legal, financial, market & organizational requirements identified by all stakeholders involved in its development. The effort shall lead to improved and enhanced sharing and collaboration of all related technology-specific RDD&D information among participants.

The goal is to accelerate the overall RDD&D process in order to deliver an earlier uptake of the specific energy technology into the marketplace

The following international low-carbon technology roadmaps are now available:

- [Biofuels for Transport](#),
- [Bioenergy for Heat and Power](#),
- [Carbon Capture and Storage \(CCS\)](#) ,
- [CCS Industrial Applications](#),
- [Cement Sector](#),
- [Concentrating Solar Power](#),
- [Electric and Plug-in Hybrid Vehicles](#),
- [Energy Efficient Buildings: heating & cooling systems](#),
- [Geothermal](#),
- [Nuclear Power](#),
- [Smart Grids](#),
- [Solar Photovoltaic Power](#),
- [Solar Heating and Cooling](#),
- [Wind Energy](#);

In addition the completed roadmaps above, the IEA is also currently working on the following international roadmaps:

- Chemical Sector: Catalysis
- Energy Efficient Building Envelopes
- High Efficiency, Low Emissions Coal
- Hydropower
- Fuel Economy for Road Vehicles

The first series of IEA technology-specific roadmaps are international in scope. Developing country and technology-specific roadmaps provide an opportunity to adapt IEA analysis, methodology and tools to regional context and objectives. The IEA is working closely with

countries to support their national roadmap efforts including the:

- [China Wind Energy Roadmap](#)
- Cement in India Roadmap (under development)

The IEA has shared the roadmaps as input to a number of international fora, including the United Nations Framework Convention on Climate Change (UNFCCC) Technology Mechanism discussions, the Major Economies Forum on Energy & Climate and Clean Energy Ministerial (CEM). The roadmaps were featured in the [Energy Technology Perspectives](#) publication. Based on its experience, and to respond to requests for guidance, the IEA has developed a [Guide](#) to developing and implementing Energy Technology Roadmaps that can be used by government and corporate stakeholders to use roadmaps as a strategic planning tool.

For further information, please visit the IEA Technology Roadmaps website: <http://www.iea.org/roadmaps/>

**Key element 4: Linkages with other relevant institutional arrangements under the Convention**

<b>Technology Executive Committee</b>
<b>Key element 4: Linkages with other relevant institutional arrangements under the Convention</b>
<b>Key modalities:</b> <ul style="list-style-type: none"><li>a) Cross-participation in the meetings of the relevant bodies, including workshops and events organized by such bodies, or jointly organized, on issues of common interest;</li><li>b) Inviting inputs to support the implementation of particular activities as specified in the workplan of the TEC;</li><li>c) Providing inputs into other institutional arrangements under the Convention, in response to requests by the Conference of the Parties and/or invitations by respective institutions, to facilitate the work of those institutions;</li><li>d) Knowledge and information sharing.</li></ul>

<b>Organization name:</b>
<b>Key element 4: Linkages with other relevant institutional arrangements under the Convention</b>
<b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b> <ul style="list-style-type: none"><li>a) .....</li><li>b) .....</li><li>c) .....</li></ul>



**Key element 5: Linkages with other relevant institutional arrangements outside the Convention**

<b>Technology Executive Committee</b>
<b>Key element 5: Linkages with other relevant institutional arrangements outside the Convention</b>
<b>Key modalities:</b> <ul style="list-style-type: none"><li>a) Offering participation in the TEC meetings as observers or expert advisers;</li><li>b) Technical task forces, stakeholder forums and/or consultative groups;</li><li>c) Bilateral cooperative arrangements;</li><li>d) Web-based communication channels, including through the technology information clearing house (TT:CLEAR);</li></ul>

<b>Organization name:</b>
<b>Key element 5: Linkages with other relevant institutional arrangements outside the Convention</b>
<b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b> <ul style="list-style-type: none"><li>a) .....</li><li>b) .....</li><li>c) .....</li></ul>

**Key element 6: Information and knowledge sharing**

<b>Technology Executive Committee</b>
<b>Key element 6: Information and knowledge sharing</b>
<p><b>Key modalities:</b></p> <ul style="list-style-type: none"><li>a) The TEC should disseminate its outputs and facilitate knowledge sharing through a well-functioning information platform that responds to the information and knowledge service requirements of its potential users, including Parties and a wide range of technology actors, experts and stakeholders.</li><li>b) The platform would be a tool used to promote the collaboration between various actors and to seek cooperation with relevant international organizations and initiatives. It would support the efforts of the TEC in the following ways: exploring opportunities for information sharing, establishing links with existing knowledge platforms and implementing joint initiatives and programmes.</li><li>c) The TEC should consider upgrading TT:CLEAR with an expanded and more strategic focus, tailored to the functions of the TEC, and building on existing technology information networks.</li></ul>

<b>Organization name:</b>
<b>Key element 6: Information and knowledge sharing</b>
<p><b>Actions undertaken by the organization relevant to the TEC in performing its functions:</b></p> <ul style="list-style-type: none"><li>a) .....</li><li>b) .....</li><li>c) .....</li></ul>