This document aims to provide a comprehensive and easy-to-understand description of the clean development mechanism (CDM). It should be noted that this document does not replicate in the exact manner all the texts agreed upon in the international negotiations. Also, there are issues yet to be settled in the international negotiations regarding detailed interpretations and processes. As for the details and exact expressions in the agreed texts, please refer to the respective documents available on the website of the United Nations Framework Convention on Climate Change <http://unfccc.int/>.

Whilst information in this document is believed to be true and accurate at the date of going to press, neither the author nor publisher can accept any legal responsibility or liability for any errors or omissions that may be made.

Other CDM-related publications can be downloaded from <http://www.iges.or.jp/en/cdm/report.html>. For any queries relating to this document, please contact <mm-info@iges.or.jp>. 
### Important changes from previous version (Ver. 22.0/April 2013)

<table>
<thead>
<tr>
<th>Page</th>
<th>Chapter</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>The Support Structure of CDM EB</td>
<td><strong>Updated</strong> responsibility of each entity</td>
</tr>
<tr>
<td>13</td>
<td>DOE</td>
<td><strong>Updated</strong> performance monitoring DOEs</td>
</tr>
<tr>
<td>15</td>
<td>Making PDD</td>
<td><strong>Updated</strong> guidelines for completing the PDD</td>
</tr>
<tr>
<td>38</td>
<td>Registration fee</td>
<td><strong>Updated</strong> registration fee</td>
</tr>
<tr>
<td>40</td>
<td>Submission for request for approval of changes</td>
<td><strong>Updated</strong> eligibility criteria for request for approval of changes</td>
</tr>
<tr>
<td>17,21,29-32,48,50,57,58,59</td>
<td>Conditions for CDM projects</td>
<td>Replaced from the old reference documents (EB reports and its annex) to CDM project standard (PS) version 3</td>
</tr>
<tr>
<td>7,14-16,29,34,36-42,44,45-48,57,59,60</td>
<td>CDM project cycle</td>
<td>Replaced from the old reference documents (EB reports and its annex) to CDM project cycle procedure (PCP) version 3.2</td>
</tr>
<tr>
<td>13,35,43,59</td>
<td>CDM-related body</td>
<td>Replaced from the old reference documents (EB reports and its annex) to CDM validation and verification standard (VVS) version 3</td>
</tr>
</tbody>
</table>

Other old reference documents were updated to new ones accordingly.
1. The Kyoto Protocol  
   - The Clean Development Mechanism (CDM)  
   - Joint Implementation (JI)  
   - International Emissions Trading (IET)

2. The Kyoto Mechanisms
   - The Clean Development Mechanism (CDM)
   - Joint Implementation (JI)
   - International Emissions Trading (IET)

3. CDM project cycle

4. CDM-related bodies
   - CMP
   - Designated National Authority (DNA)
   - CDM Executive Board (EB)
   - The Support Structure of CDM EB
   - Designated Operational Entity (DOE)
   - Project participant (PP)
   - Procedures for modalities of communication (MoC)

5. Conditions for CDM projects

6. Making PDD

7. Baseline
   - Concept of the baseline and additionality
   - Baseline scenario

8. Starting date and crediting period
   - Starting date of a CDM project activity
   - Crediting period

9. Monitoring plan

10. Approval from each Party involved

11. Deviation request
   - Submission of request for deviation
   - Processing request for deviation

12. Validation
   - Procedures for validation
   - Validation requirements

13. Registration
   - Procedures for requests for registration
   - Procedures for review of requests for registration
   - Registration fee

14. Changes to registered CDM project activities or PoA
   - Submission for request for approval of changes
   - Processing request for approval of changes
Abbreviations and Acronyms

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAU</td>
<td>Assigned amount unit</td>
</tr>
<tr>
<td>ACM</td>
<td>Approved consolidated methodology</td>
</tr>
<tr>
<td>AE</td>
<td>Applicant entity</td>
</tr>
<tr>
<td>AM</td>
<td>Approved methodology</td>
</tr>
<tr>
<td>AMS</td>
<td>Approved small-scales methodologies</td>
</tr>
<tr>
<td>A/R</td>
<td>Afforestation and Reforestation</td>
</tr>
<tr>
<td>CCS</td>
<td>Carbon dioxide capture and storage</td>
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<tr>
<td>CDM</td>
<td>clean development mechanism</td>
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<tr>
<td>CDM-AP</td>
<td>CDM Accreditation Panel</td>
</tr>
<tr>
<td>CEF</td>
<td>Carbon emission factor</td>
</tr>
<tr>
<td>CER</td>
<td>Certified emission reduction</td>
</tr>
<tr>
<td>CME</td>
<td>Coordinating/managing entity</td>
</tr>
<tr>
<td>CMP (COP/MOP)</td>
<td>Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol</td>
</tr>
<tr>
<td>COP</td>
<td>Conference of the Parties (to the UNFCCC)</td>
</tr>
<tr>
<td>CPA</td>
<td>CDM programme activity (Component project activity)</td>
</tr>
<tr>
<td>CPA-DD</td>
<td>Component project activity design document</td>
</tr>
<tr>
<td>CPR</td>
<td>Commitment period reserve</td>
</tr>
<tr>
<td>DNA</td>
<td>Designated national authority</td>
</tr>
<tr>
<td>DOE</td>
<td>Designated operational entity</td>
</tr>
<tr>
<td>EB</td>
<td>Executive Board of the clean development mechanism</td>
</tr>
<tr>
<td>EIT</td>
<td>Economies in Transition</td>
</tr>
<tr>
<td>ER</td>
<td>Emission Reduction</td>
</tr>
<tr>
<td>ERT</td>
<td>Expert Review Team</td>
</tr>
<tr>
<td>ERU</td>
<td>Emission Reduction Unit</td>
</tr>
<tr>
<td>GHG</td>
<td>Greenhouse gas</td>
</tr>
<tr>
<td>GWP</td>
<td>Global Warming Potential</td>
</tr>
<tr>
<td>HFCs</td>
<td>Hydro fluorocarbons</td>
</tr>
<tr>
<td>I-CER</td>
<td>Long-term certified emission reduction</td>
</tr>
<tr>
<td>LDC</td>
<td>Least developed country</td>
</tr>
<tr>
<td>IET</td>
<td>International emissions trading under the Kyoto Protocol</td>
</tr>
<tr>
<td>IPCC</td>
<td>Intergovernmental Panel on Climate Change</td>
</tr>
<tr>
<td>ITL</td>
<td>International Transaction Log</td>
</tr>
<tr>
<td>JI</td>
<td>Joint Implementation</td>
</tr>
<tr>
<td>KP</td>
<td>Kyoto Protocol</td>
</tr>
<tr>
<td>LULUCF</td>
<td>Land Use, Land-Use Change and Forestry</td>
</tr>
<tr>
<td>Meth Panel</td>
<td>Methodologies Panel (MP)</td>
</tr>
<tr>
<td>MoC</td>
<td>Modalities of communication</td>
</tr>
<tr>
<td>MP</td>
<td>Methodologies Panel</td>
</tr>
<tr>
<td>NM</td>
<td>New Methodology</td>
</tr>
<tr>
<td>OE</td>
<td>Operational Entity</td>
</tr>
<tr>
<td>Party</td>
<td>Country or regional integration organization which has ratified the KP, unless otherwise specified</td>
</tr>
<tr>
<td>PCP</td>
<td>Project Cycle Procedure</td>
</tr>
<tr>
<td>PDD</td>
<td>Project design document</td>
</tr>
<tr>
<td>PFCs</td>
<td>Per fluorocarbons</td>
</tr>
<tr>
<td>PoA</td>
<td>Programme of activities</td>
</tr>
<tr>
<td>PoA-DD</td>
<td>Programme of activities design document</td>
</tr>
<tr>
<td>PP</td>
<td>Project Participant</td>
</tr>
<tr>
<td>PS</td>
<td>Project Standard</td>
</tr>
<tr>
<td>RIT</td>
<td>Registration and issuance team</td>
</tr>
<tr>
<td>RMU</td>
<td>Removal Unit</td>
</tr>
<tr>
<td>SAR</td>
<td>(the IPCC) 2nd Assessment Report</td>
</tr>
<tr>
<td>SBI</td>
<td>Subsidiary Body for Implementation</td>
</tr>
<tr>
<td>SBSTA</td>
<td>Subsidiary Body for Scientific and Technological Advice</td>
</tr>
<tr>
<td>SF₆</td>
<td>Sulfur Hexafluoride</td>
</tr>
<tr>
<td>SiDs</td>
<td>Small Island Developing states</td>
</tr>
<tr>
<td>SOP</td>
<td>Share of Proceeds</td>
</tr>
<tr>
<td>SSC</td>
<td>Small-Scale</td>
</tr>
<tr>
<td>SSC-WG</td>
<td>Small-scale Working Group</td>
</tr>
<tr>
<td>t-CER</td>
<td>Temporary certified emission reduction</td>
</tr>
<tr>
<td>UNFCCC</td>
<td>United Nations Framework Convention on Climate Change</td>
</tr>
<tr>
<td>VVS</td>
<td>Validation and Verification Standard</td>
</tr>
</tbody>
</table>
1. The Kyoto Protocol

♦ The Kyoto Protocol was adopted at the 3rd session of the Conference of the Parties (COP3) to the United Nations Framework Convention on Climate Change (UNFCCC) held in Kyoto, Japan, in December 1997.
♦ The Protocol defines quantified greenhouse gas (GHG) emissions reduction targets for Annex I Parties. [KP Art.3 para1]

GHGs defined by the Protocol are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), HFCs, NF₃, PFCs, and SF₆. [FCCC/CP/2011/9/Add.2]

Annex I Parties means those listed in Annex I of the UNFCCC. They are developed countries including Economies in Transitions, e.g. Russia and Eastern Europe. [KP Art.3 para1&8]

Annex I Parties have different GHG emission ceilings for the 5-year period of 2008-2012 (1st commitment period).
- Emission ceiling which is called ‘assigned amounts’ for each Party is calculated as follows.
  “The base-year emissions” x “emission reduction target” x five [KP Art.3 para7]
- The base-year emissions are basically a Party’s aggregate GHG emissions in 1990 (whereas, countries may use 1995 as its base year for HFCs, PFCs, and SF₆). [KP Art.3 para1&8]

♦ The Protocol introduces 3 market mechanisms, namely the Kyoto Mechanisms. Annex I Parties would be able to achieve their emission reduction targets cost-effectively, by using these mechanisms.

Joint Implementation (JI)  
<Article 6 of the Protocol>

Clean Development Mechanism (CDM)  
<Article 12 of the Protocol>

International Emissions Trading  
<Article 17 of the Protocol>

- Provided the Parties meet eligibility requirements for using the Kyoto Mechanisms.

BOX: Entry into force of the Kyoto Protocol

The Kyoto Protocol shall enter into force on the 90th day after the date on which not less than 55 Parties to the UNFCCC, incorporating Annex I Parties which accounted in total for at least 55% of the total CO₂ emissions for 1990 of the Annex I Parties, have deposited their instruments of ratification, acceptance, approval or accession. [KP Art.25 para1]
- Currently, 190 countries and 1 regional economic integration organization (the EEC) have deposited instruments of ratifications, accessions, approvals or acceptances.
- 55% of the total CO₂ emissions for 1990 of the Annex I Parties have ratified the Protocol.
2. The Kyoto Mechanisms

2-1. The Clean Development Mechanism (CDM)

- Annex I Parties which have ceilings for GHG emissions (emission caps), assist non-Annex I Parties which don’t have emission caps, to implement project activities to reduce GHG emissions (or remove by sinks), and credits will be issued based on emission reductions (or removals by sinks) achieved by the project activities.
  ☞ A Party where CDM project is implemented, is called a host Party.
  ☞ The credit from the CDM is called certified emission reduction (CER). [CMP/2005/8/Ad1, p7 para1(b)]
  ☞ Reductions in emissions shall be additional to any that would occur in the absence of the certified project activity. [KP Art.12 para5[c]]

- Annex I Parties can use CERs to contribute to compliance of their quantified GHG emissions reduction targets of the Kyoto Protocol. [KP Art.12 para3(b)]
  ☞ As a result, the amount of emission cap of Annex I Parties will increase.

- The CDM will issue CERs before the 1st commitment period.
  ☞ CERs issued based on activities during the period from the year 2000 up to 2012 can be used in achieving compliance of Annex I Parties in the 1st commitment period. [KP Art.12 para10]
2-2. Joint Implementation (JI)

- Annex I Parties which have ceilings for GHG emissions (emission caps), assist other Annex I Parties to implement project activities to reduce GHG emissions (or remove by sinks), and credits will be issued based on amount of emission reductions (or removals by sinks) achieved by the project activities.
  - A Party where JI project is implemented, is called a host Party.
  - The credit from the JI is called emission reduction unit (ERU). \[\text{CMP/2005/8/Ad1, p7 para1(a)}\]
  - Any such project shall provide a GHG emission reductions, or removals by sinks, that is additional to any that would otherwise occur. \[\text{KP Art.6 para1(b)}\]
- Annex I Parties can use ERUs to contribute to compliance of their quantified GHG emissions reduction targets of the Kyoto Protocol. \[\text{KP Art.6 para1}\]
  - The total amount of emission cap of Annex I Parties will not change, because JI is credits transfer between the Parties both of which have emission caps.
- ERUs will be issued only after 2008. \[\text{CMP/2005/8/Ad2, p2 para5}\]

The total amount of emission cap of Annex I Parties is same

- A total emission cap of an Annex I Party X
  - Specific place in a host Party
  - GHG emissions projection
  - GHG emissions
  - Baseline Scenario

- A total emission cap of an Annex I Party X
  - Specific place in a host Party
  - GHG emissions
  - Project Scenario

- Annex I Party Y will get ERUs

- A total emission cap of Party X
  - Transferred ERUs are subtracted from ‘Assigned Amounts’

- A total emission cap of Party Y
  - Acquired ERUs are added to ‘Assigned Amounts’

- International Emissions Trading is to trade Kyoto Protocol units (KP units) including part of assigned amounts, CERs, ERUs and etc, between Annex I Parties.
- The total amount of emission cap of Annex I Parties will not change.
- Minimum trading unit is 1t-CO₂ equivalent.

- Through market mechanism, International Emissions Trading can decrease total cost of Annex I Parties to achieve their collective emission reduction targets.

Without International Emissions Trading

<table>
<thead>
<tr>
<th>Party</th>
<th>Emission cap</th>
<th>GHG emissions</th>
<th>Emission reductions</th>
<th>GHG emissions</th>
<th>Emission reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annex I Party X</td>
<td>10</td>
<td>12</td>
<td>2</td>
<td>$200</td>
<td>$400</td>
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<tr>
<td>Annex I Party Y</td>
<td>8</td>
<td>10</td>
<td>2</td>
<td>$100</td>
<td>$200</td>
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<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Party X</td>
<td>10</td>
<td>12</td>
<td>1</td>
<td>$200</td>
<td>$350</td>
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<tr>
<td>Party Y</td>
<td>8</td>
<td>10</td>
<td>3</td>
<td>$100</td>
<td>$150</td>
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<th>Party</th>
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<th>Emission reductions</th>
<th>GHG emissions</th>
<th>Emission reductions</th>
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<tr>
<td>Total</td>
<td>18</td>
<td>22</td>
<td>4</td>
<td>$600</td>
<td>$600</td>
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With International Emissions Trading

<table>
<thead>
<tr>
<th>Party</th>
<th>Emission cap</th>
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<th>Emission reductions</th>
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<td>1</td>
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<td>$350</td>
</tr>
<tr>
<td>Annex I Party Y</td>
<td>7</td>
<td>10</td>
<td>3</td>
<td>$100</td>
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<td>$200</td>
<td>$350</td>
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<td>$100</td>
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<td>22</td>
<td>4</td>
<td>$600</td>
<td>$600</td>
</tr>
</tbody>
</table>

Note: Party Y sold a KP unit to Party X at $150.
Annex I Parties can trade following types of Kyoto Protocol units.

- **Assigned amount unit (AAU)**: [CMP/2005/8/Ad1, p7 para1(c)]
  - Total amount of AAUs of an Annex I Party is calculated from its base year emissions and emission reduction target.

- **Removal unit (RMU)**: [CMP/2005/8/Ad1, p7 para1(d)]
  - Total amount of RMU of an Annex I Party is calculated from net removal of GHGs by afforestation and reforestation (A/R) activities. [CMP/2005/8/Ad3, p5 para1(a)-(d)] and additional activities related to GHG removals by sinks. [CMP/2005/8/Ad3, p5 para1(e)-(h)]

- **Emission reduction unit (ERU)** from JI

- **Certified emission reduction (CER)** from the CDM

- **Temporary CER (tCER) and long-term CER (ICER)**
  - tCER and ICER are issued from afforestation and reforestation (A/R) CDM project activities. [CMP/2005/8/Ad1, p62 para1(g)-(h)]

**BOX: Compliance assessment**

GHG emission cap of an Annex I Party at the end of the 1st commitment period is as follows.

\[
\text{Emission cap of Annex I Party} = \text{AAUs} + \text{RMUs} + \text{Acquired credits from JI and the CDM (ERUs+CERs+tCERs+ICERs)} \pm \text{Acquired and transferred KP units by International Emissions Trading}
\]

**Consequence of non compliance**

- If GHG emissions during the 1st commitment period of an Annex I Party is more than its emission cap, the Annex I Party will be deemed to be non compliance to the Kyoto Protocol.
- The Party not in compliance shall be applied the following consequences. [CMP/2005/8/Ad3, p102 para5]
  - Deduction from the Party’s assigned amount for the 2nd commitment period of a number of tonnes equal to 1.3 times the amount in tonnes of excess emissions;
  - Development of a compliance action plan; and
  - Suspension of the eligibility to make transfers under Article 17 of the Protocol until the Party is reinstated.

**Carry-over**

- If an emission cap of an Annex I Party is more than its GHG emissions during the 1st commitment period, the surplus can be carried over to the subsequent commitment period. [CMP/2005/8/Ad2, p27 para15] [CMP/2005/8/Ad2, p30 para36]
- The end of additional period is the 100th day after the date set by the CMP. [CMP/2005/8/Ad3, p101 XIII]
- There are several restrictions for carry-over depending on the type of KP units.
3. CDM project cycle

(1) Planning a CDM project activity

- CDM project participants (PPs) plan a CDM project activity. (chap.5)
  - There are several conditions in order to be registered as a CDM project activity, and PPs should consider those conditions from a planning stage.

(2) Making the project design document (PDD)

- PPs make the project design document (F-CDM-PDD) for a CDM project activity. (chap.6)
  - The F-CDM-PDD presents information on the essential technical and organizational aspects of the project activity and is a key input into the validation, registration, and verification of the project.
  - The F-CDM-PDD contains information on the project activity, the approved baseline methodology applied to the project activity, and the approved monitoring methodology applied to the project.

(3) Getting approval from each Party involved

- PPs shall get written approvals of voluntary participation from the designated national authority (DNA) of each Party involved, including host Party. (chap.10)
  - The written authorization of an entity(ies) participation in a CDM project activity or PoA and written approval of voluntary participation from the DNA of each Party involved. [Glos ver.7, p5]
  - The registration of a project activity can take place without an Annex I Party being involved at the stage of registration. [EB18 Rep, para 57]
  - The details of approval procedure is up to each Party.
- PPs may get written approvals in step (1), (2) or even (4).
  - But PPs must get written approvals at least from the host Party before a request for registration.

(4) Validation

- Validation is the process of independent evaluation of a project activity against the requirements of the CDM on the basis of the PDD. [CMP/2005/8/Ad1, p14 para35]
  - Validation is carried out by a designated operational entity (DOE).
  - There is a formal procedure for validation. (chap.12)

(5) Registration

- Registration is the formal acceptance of a validated project as a CDM project activity. [CMP/2005/8/Ad1, p14 para36]
  - Registration is done by the CDM executive board (EB).
  - There is a formal procedure for request for registration. (chap.13)
  - PPs shall pay registration fee at registration stage.
- If there are changes from the project activity as described in the registered PDD, PPs can notify and request approval of such changes. (chap.14-1)
3. CDM project cycle

(6) Monitoring a CDM project activity

♦ PPs collect and archive all relevant data necessary for calculating GHG emission reductions by a CDM project activity, in accordance with the monitoring plan written in the PDD.

[CMP/2005/8/Ad1, p18 para56] [CMP/2005/8/Ad1, p18 para58]
☞ Monitoring plan can be revised. (chap. 14-1)

(7) Verification and certification

♦ Verification is the periodic independent review and ex post determination of the monitored GHG emission reductions. [CMP/2005/8/Ad1, p18 para61]
☞ Verification is carried out by a designated operational entity (DOE).
☞ There is a formal procedure for verification. (chap. 15)

♦ Certification is the written assurance by a DOE that a project activity achieved the reductions in GHG emissions as verified. [CMP/2005/8/Ad1, p18 para61]
☞ Certification is also done by a DOE.

(8) Issuance of CERs

♦ The EB will issue certified emission reductions (CERs) equal to the verified amount of GHG emission reductions. [CMP/2005/8/Ad1, p19 para64]
☞ There is a formal procedure for issuance of CERs. (chap. 16)
☞ The issuance of CERs, in accordance with the distribution agreement, shall be effected only when the share of proceeds to cover administrative expenses (SOP-Admin) of the CDM has been received. [CMP/2005/8/Ad1, p98 para37]

♦ Among issued CERs, 2% of those will be deducted for the share of proceeds to assist developing Parties that are particularly vulnerable to the adverse effects of climate change to meet the costs of adaptation (SOP-Adaptation). [CP/2001/13/Ad2, p23 para15(a)]

(9) Distribution of CERs

♦ CERs will be distributed among PPs. (chap. 17)
☞ CERs are forwarded to the registry accounts of Parties and project participants involved, in accordance with their request. [CMP/2005/8/Ad1, p20 para66, (b)]

BOX: CDM project cycle procedure (PCP) version 03.2 [PCP ver.3.2]
☞ This procedure describes the administrative steps to follow for PPs, CME for PoAs, DOEs, other stakeholders, the EB and the secretariat for registration of a CDM project activity or PoA, issuance of CERs and related actions.
4. CDM-related bodies

4-1. CMP

- The Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP) is the ultimate decision-making body of the CDM. [EB67 Anx4 para5]
  - This body has authority over, and provides guidance to, the EB through the adoption of decisions and resolutions, published in reports of the CMP. The decisions of the CMP outline formal expectations with respect to the CDM.
  - They set direction and establish precedents which serve as reference for future decision making and basis for operating procedures. CMP decisions are treated as mandatory requirements or rules intended to ensure the successful implementation of the KP.
  - All decisions taken by the EB must be consistent with and not contradict decisions of the CMP.
- The CMP: [CMP/2005/8/Ad1, p7 para2-4]
  - Has authority over and provides guidance to the CDM;
  - Decides on the recommendations made by the EB on its rules of procedure, and in accordance with provisions of decision 17/CP.7 [CP/2001/13/Ad2 p20-49], the present annex and relevant decisions of the CMP;
  - Decides on the designation of operational entities (OEs) accredited by the EB;
  - Reviews annual reports of the EB;
  - Reviews the regional and subregional distribution of designated operational entities (DOEs) and CDM project activities.

4-2. Designated National Authority (DNA)

- Parties participating in the CDM shall set up a designated national authority (DNA) for the CDM. [CMP/2005/8/Ad1, p12 para29]
- CDM project participants (PPs) shall receive written approval of voluntary participation from the DNA of each Party involved.
  - The written approval shall include confirmation by the host Party that the project activity assists it in achieving sustainable development. [CMP/2005/8/Ad1, p15 para40(a)]
  - The details of approval procedure is up to each Party.

Definition of host Party [Glos ver.7 p12] [EB70 Anx38]
- A Party involved not included in Annex I to the UNFCCC on whose territory a CDM project activity or PoA, as applicable, is physically located.
- A project activity and a bundled project activity shall have only one host Party.
- The host Party is the Party in which the project activity is located, as set out in the PDD.
- Where a methodology provides for the application of a system, such as an electricity grid, and that system extends across more than one Party, a letter of approval from the DNA is only required from the host Party.
- A letter of approval is only required from the Party in which the project activity is located, as set out in the PDD.

BOX: Communication with EB [EB62 Anx15 para11-13]
- For the purpose of facilitating communication between the EB and DNAs, and between DNAs themselves, the secretariat shall organise global and regional DNA forum meetings as per the terms of reference of DNA forums.
- The EB shall also allocate time for interaction during the EB meetings with the global DNA forum through its co-chairs twice a year.
- The EB may invite the co-chairs of the global DNA forum to any of its meetings additional to the two meetings whenever it finds a need for further interaction with the forum.
4. CDM-related bodies

4-3. CDM Executive Board (EB)

- The EB supervises the CDM, under the authority and guidance of the CMP. [CMP/2005/8/Ad1, p8 para5]
- Decisions of the EB must be consistent with and support the formal decisions of the CMP. Decisions of the EB are hierarchical in nature and are published in the meeting reports of the EB and their accompanying annexes.
- Taking into account both the rule-making and rule-enforcing roles of the EB, decisions of the EB can be divided into three main classes: [EB67 Anx4 para7]
  - **Regulatory decisions** relating to the adoption of, or revision to, CDM rules and requirements to be followed by stakeholders.
  - **Rulings** relating to the determination of whether the actions of PPs, AEs and DOEs are in compliance with the CDM rules and requirements
  - **Operational decisions** relating to the functioning of the EB and its support structure and include: decisions on finance; administration; programmes of work; internal operating procedures and the establishment of supporting bodies
- There is the code of conduct for member and alternate member of the EB. [EB69 Anx1]
- There is terms of reference in relation to the membership of the EB. [CMP/2010/L.8 Anx1]

Members of the EB [CMP/2005/8/Ad1, p9 para7-12]

- The EB comprises 10 members from Parties to the KP.
  - 1 member from each of the 5 UN regional groups, 2 other members from the Annex I Parties, 2 other members from the non-Annex I Parties, and 1 representative of the small island developing States.
  - The 5 regional groups of the UN are: Asia, Africa, Latin America, Eastern Europe, and the Western European and Others Group
  - As a result, 4 are from Annex I Parties and 6 are from non-Annex I Parties, unless 1 member from Asia is selected from Japan.
  - There is an alternate for each member of the EB.
- Members, including alternate members, of the EB are nominated by the relevant constituencies referred above, and be elected by the CMP.
  - Vacancies shall be filled in the same way.
- Members are elected for a period of 2 years and be eligible to serve a maximum of 2 consecutive terms.
  - Terms as alternate members do not count.
- 5 members and 5 alternate members are elected initially for a term of 3 years, and other members and alternate members for a term of 2 years. Thereafter, the CMP elects, every year, 5 new members, and 5 new alternate members, for a term of 2 years.
- The EB elects its own chair and vice-chair, with one being a member from an Annex I Party and the other being from a non-Annex I Party.
  - The positions of chair and vice-chair alternate annually between a member from an Annex I Party and a non-Annex I Party.

Meeting and decision of the EB [CMP/2005/8/Ad1, p10 para13-16]

- The EB meets as necessary but no less than 3 times a year.
- At least 2/3 of the members of the EB, representing a majority of members from Annex I Parties and a majority of members from non-Annex I Parties, must be present to constitute a quorum.
- Decisions by the EB is taken by consensus, whenever possible. If that is not possible, decisions shall be taken by 3/4 majority of the members present and voting at the meeting. Members abstaining from voting shall be considered as not voting.
- Meetings of the EB are open to attendance, as observers, except where otherwise decided by the EB.
The EB decision [EB67 Anx4 para7-9]

CMP is the ultimate decision-making body of the CDM. CMP decisions are treated as mandatory requirements or rules intended to ensure the successful implementation of the Kyoto Protocol.

The EB is the regulatory body of the CDM. Acting under the authority and guidance of the CMP, it is fully accountable to the CMP.

Regulatory decisions: relate to the adoption of, or revision to, CDM rules and requirements to be followed by stakeholders. Regulatory decisions are reflected in the adoption of, or revisions to: standards, procedures, guidelines and clarifications;

Operational decisions: relate to the functioning of regulatory body the EB and its support structure (panels, working groups and secretariat) and include: decisions on finance; administration; programmes of work; internal operating procedures and the establishment of supporting bodies.

Rulings: relate to the determination of whether the actions of project participants, applicant entities (AEs) and designated operational entities (DOEs) are in compliance with the CDM rules and requirements.

CMP requested the EB to adhere to the principle that any decision, guidance, tool and rules shall not be applied retroactively. [CMP/2010/L.8 para15]

Document [EB67 Anx4 para10]

☞ Standards are designed to achieve a uniform approach to compliance with the CDM modalities and procedures. A standard describes mandatory levels of performance (policy standard) or provides mandatory specifications (methodological standard), and as such, is used as a reference point against which compliance is evaluated. Methodological standards include methodologies and methodological tools.

☞ Procedures contains a mandatory series of actions that must be undertaken to ensure demonstrate in a uniform and consistent way that the EB, the secretariat, project participants, DOEs and other stakeholders comply with the CDM modalities and procedures and the standards issued by the EB. Procedures relate to processes in the CDM project cycle and the operations of the EB and its support structure including, the rules of procedures of the EB and the terms of reference for the support structure.

☞ Guidelines contain supplemental information such as acceptable methods for satisfying requirements identified in standards or procedures, or instructions on how to fill out forms. Guidelines describe processes and are designed to promote a uniform approach to compliance with the applicable standards or procedure.

☞ Clarifications are issued to alleviate confusion relating to the application of requirements in a standard or procedure. Policy clarification and methodological clarification are issued by the EB.

☞ Ruling notes explain the rationale behind a negative decision (ruling) of the EB regarding, inter alia, DOE, registering a project activity or programme of activities or issuing CERs.

☞ Information Notes contain factual information on a particular subject matter relating to the CDM rules and requirements, the functioning of the EB and its support structure, or rulings of the EB.

☞ Forms contain pre-defined data fields to be filled in by project participants or AEs/DOEs.

☞ Glossary is an alphabetical list of terms relating to the CDM;

☞ Recommendation is a document endorsing, approving, supporting, providing options or recommending a course of action.
4-4. The Support Structure of CDM EB

- The EB may establish committees, panels or working groups to assist it in the performance of its functions. The EB shall draw on the expertise necessary to perform its functions, including from the UNFCCC roster of experts [CMP/2005/8/Ad1, p10 para18]
- All panels and working groups shall operate under the guidance of the EB. The secretariat shall operate under the guidance of the EB with regard to those activities that fall under the responsibility of the EB [EB73 Anx2, para9]
- The term of service of a member of panels and working groups shall be for a period of one year [EB73 Anx2, para24]

CDM executive board (EB)

- Secretariat
- Methodological Bodies
  - Meth Panel (MP) (Methodologies Panel)
  - SSC WG (Working group for small-scale CDM project activities)
  - CCS WG (Working group on carbon dioxide capture and storage)
  - AR WG (Working group on afforestation and reforestation project activities)
- RIT (Registration and Issuance Team)
- CDM-AP (CDM Accreditation Panel)
- CDM-AT (CDM accreditation assessment team)
- Appeal Panel

The Methodological Bodies support the EB in the creation of methodological standards, guidelines and clarifications and other methodological matters applicable to proposed and registered CDM project activities. Methodological Bodies perform the following key functions; [EB73 Anx2, para2,4]
- Considering draft recommendations regarding the establishment, revision or withdrawal of methodological standards, guidelines and clarifications for CDM project activities;
- Considering draft recommendations for methodological requirements for CDM project activities;
- Providing advice and recommendations to the EB regarding the need and priority areas for methodological guidance

Size and composition: MP - 10 members, SSC WG – 5 members and 1 MP member, AR WG – 5 members, CCS WG – 5 members and 1 MP member [EB73 Anx2, Apx1]

The RIT assist the EB by preparing assessments of submission relating to 1. Requests for registration of proposed project activities or PoAs, 2. Requests for issuance of CERs, 3. Requests for renewal of crediting period of registered project activities or PoAs, and requests submitted to the EB, etc [EB67 Anx2, para2]

The RIT is composed of not less than 20 members. [EB67 Anx2, para8]

CDM-AP supports the EB in the establishment and implementation of standards and procedures for accreditation of operational entities that conduct validations and verifications regarding CDM project activities. [EB73 Anx2, para2,5]
- Considering the results of assessments of operational entities regarding their compliance with accreditation requirements;
- Providing advice and recommendations to the EB on accreditation requirements for operational entities;
- Providing advice and recommendations to the EB on the improvement of the accreditation process.

The CDM-AT shall undertake an assessment of the applicant and/or DOEs and prepare an assessment report for the CDM-AP.

A team shall be composed of a team leader and at least 2 team members chosen to serve in a team for an assessment at a time. [EB09 Anx1]

PP request for a review by an independent appeal panel of various decisions taken by a DOE in respect of validation and/or verification/certification functions. [EB67 Anx5 para10]
4-5. Designated Operational Entity (DOE)

- A DOE under the CDM is either a domestic legal entity or an international organization accredited and designated, on a provisional basis until confirmed by the CMP, by the EB.
  - It validates and subsequently requests registration of a proposed CDM project activity.
  - It verifies emission reduction of a registered CDM project activity, certifies as appropriate and requests the EB to issue Certified Emission Reductions (CERs) accordingly.
- The list of DOEs is shown in [http://cdm.unfccc.int/DOE/list/index.html].
- Upon request, the EB may allow a single DOE to perform all these functions within a single CDM project activity. [CMP/2005/8/Ad1, p12 para27(e)]

Procedure for accrediting OEs [EB56 Anx2, para3]
- The CMP designates operational entities (OEs) (or withdraws their designation) based on a recommendation by the EB.
- The EB takes the decision whether or not to accredit an AE and recommend it to the CMP for designation, and to fully or partially suspend a DOE, or to withdraw accreditation of a DOE. Accreditation by the EB implies provisional designation.
- CDM-AP serves as the technical panel of the EB in accordance with its terms of reference and makes recommendations to the EB on effective implementation of the CDM accreditation process.
- CDM-AT, in accordance with the CDM accreditation procedure and under the guidance of the CDM-AP, undertakes the assessment of an AE and/or DOE, to identify the level of conformity to the CDM accreditation requirements and reports to the CDM-AP.
- The secretariat supports the implementation of the CDM accreditation procedure.

The accreditation (re-accreditation) assessment of an AE consists of following main elements:
- Desk review by a CDM-AT of the adequacy of the documented system of AE to meet the CDM accreditation requirements and perform CDM validation and verification functions;
- On-site assessment by a CDM-AT to evaluate the implementation of the system. The on-site assessment shall take place at the office of the AE and/or at any other site where the CDM functions are undertaken, as decided by the CDM-AP.

There is “CDM accreditation standard for operational entities (ver.4)”. [EB67 Anx4]
Suspension or withdrawal of a DOE [CMP/2005/8/Ad1, p11 para21]
The EB may recommend to the CMP to suspend or withdraw the designation of a DOE if it has carried out a review and found that the entity no longer meets the accreditation standards or applicable provisions in decisions of the CMP.
☞ The EB may recommend the suspension or withdrawal of designation only after the DOE has had the possibility of a hearing.
☞ The suspension or withdrawal is with immediate effect, on a provisional basis, once the EB has made a recommendation, and remains in effect pending a final decision by the CMP.
☞ The affected entity shall be notified, immediately and in writing, once the EB has recommended its suspension or withdrawal.
☞ The recommendation by the EB and the decision by the CMP on such a case shall be made public.
⇒ It is assumed that if the CMP decides the affected DOE meets the accreditation standards, the DOE will recover from its suspension or withdrawal.

Affect to registered CDM project activities by the suspension or withdrawal of designation of a DOE [CMP/2005/8/Ad1, p11 para22-24]
☞ Registered project activities shall not be affected by the suspension or withdrawal of designation of a DOE unless significant deficiencies are identified in the relevant validation, verification or certification report for which the entity was responsible.
⇒ There is no clear definition of “significant deficiencies.”
☞ In this case, the EB shall decide whether a different DOE shall be appointed to review, and where appropriate correct, such deficiencies.
⇒ Any costs related to the review shall be borne by the DOE whose designation has been withdrawn or suspended.
☞ If such a review reveals that excess CERs were issued, the DOE whose accreditation has been withdrawn or suspended shall acquire and transfer, within 30 days of the end of review, the excess CERs issued, as determined by the EB, to a cancellation account in the CDM registry.
⇒ Any suspension or withdrawal of a DOE that adversely affects registered project activities shall be recommended by the EB only after the affected PPs have had the possibility of a hearing.

BOX: CDM Validation and Verification Standard (VVS) version 03.0 [VVS ver.3]
☞ Validation and Verification Standard (VVS) is applicable to designated operational entities (DOEs) that are under contractual arrangements with project participants or coordinating/managing entities to validate and/or verify any CDM project activities or programme of activities (PoA) based on CDM methodologies previously approved by the EB.

BOX: Performance monitoring DOEs [EB73 Anx14]
☞ Objective: To foster improvement of the performance of DOEs, and provide the EB and the CDM Accreditation Panel CDM-AP with tools for informed decision making on actions in the accreditation process. [EB73 Anx14, para 3]
☞ Scope: To monitors the performance of DOEs through the monitoring, classification and rating of the non-compliances identified at the requests for registration, issuance or post-registration changes submitted by DOEs [EB73 Anx14, para 4]
⇒ The procedure establishes a system to compile information to calculate indicators relevant to the performance of DOEs at the stages of request for registration, request for issuance and request for post-registration changes. [EB73 Anx14, para 5]

BOX: Annual activity report to the EB by DOEs
☞ A DOE shall submit an annual activity report to the EB [CMP/2005/8/Ad1, page12 para27(g)]
☞ There is a form to be used by DOEs
⇒ DOE Annual Activity Report to the EB Form (F-CDM-AAR) (ver.1.1)
4-6. Project Participant (PP)

- Participation in a CDM project activity is voluntary. [CMP/2005/8/Ad1, p12 para28]
- A Party involved that intends to participate, or a private and/or public entity authorized by the DNA of a Party involved to participate in a CDM project activity or a PoA, as applicable. [Glos ver.7, p16]

**A Party involved**
- A non-Annex I Party may participate in a CDM project activity if it is a Party to the Kyoto Protocol. [CMP/2005/8/Ad1, p12 para30]
- “Party involved” is only considered a PP if this is clearly indicated in section A.3 of the PDD or, in case of registered projects, if the secretariat is explicitly informed of this in accordance with MoC. [EB25 Rep, para110]

**A private and/or public entity**
- Private and/or public entities may only transfer and acquire CERs if the authorizing Party is eligible to do so at that time. [CMP/2005/8/Ad1, p13 para33]
- Approval / authorization by each Party involved constitutes the written authorization of an entity(ies) participation in a CDM project activity or PoA and written approval of voluntary participation from the DNA of each Party involved and including, from the host Party only, confirmation that the CDM project activity or PoA assists it in achieving sustainable development. [Glos ver.7, p5]

- The names of the project participants listed in the PDD or PoA-DD with which the DOE has a contractual relationship for validation of the proposed CDM project activity or PoA, as well as the name of the coordinating/managing entity in the case of PoA; [PCP ver.3.2, para 14]

When submitting a request for registration (chap.13-1) of the proposed CDM project activity or PoA, all project participants with a contractual relationship with the DOE for validation of the proposed CDM project activity or PoA shall be listed in the PDD or PoA-DD, unless they have provided a letter of voluntary withdrawal from the project activity or PoA. The DOE may remove project participants that are listed in the PDD or PoA-DD published for global stakeholder consultation but do not have a contractual relationship with the DOE for validation from the PDD or PoA-DD at the time of the request for registration [PCP ver.3.2, para 15]

**BOX: Withdrawn of PP before request for registration**
- The EB agreed that where a PP listed in the PDD published at validation is not included in the PDD submitted for registration, the DOE shall provide a letter from the withdrawn PP confirming its voluntary withdrawal from the proposed project activity, and address this issue in its validation report. [EB30 Rep, para41]

**BOX: Withdrawn of PP from a registered CDM project activity**
- In cases where PP(s) wish(es) to withdraw their participation from a registered CDM project activity, the secretariat shall ensure that all PPs have communicated their agreement to this withdrawal in writing, in accordance with the MoC (chap.4-7). [EB38 Rep, para57]
4-7. Procedures for modalities of communication (MoC) [PCP ver. 3.2, para23-31, 157-175]

**Modalities of communication statement** [PCP ver. 3.2, para23]
The PPs of a CDM project activity or PoA shall designate one or more focal point entities to communicate on their behalf with the EB and the secretariat within the defined scopes of authority and include this information in a modalities of communication (MoC) statement.

**Focal point** [PCP ver. 3.2, para 24-27]
♦ After the submission of a request for registration of a proposed CDM project activity or PoA in accordance with paragraph 56 below, all official communication between the PPs and the EB or the secretariat for the specific project activity or PoA shall be conducted in accordance with the MoC statement.
♦ The PPs or the CME shall submit to the DOE at the time of validation of the proposed CDM project activity or PoA an MoC statement using the latest version of the form (F-CDM-MOC).
♦ The PPs shall grant the focal points the authority to:
  ♦ Scope of focal point authority: A focal point entity can be conferred the authority to:
    ☞ <Scope a> Communicate in relation to requests for forwarding of CERs to individual accounts of PPs; and/or,
    ☞ <Scope b> Communicate in relation to requests for addition and/or voluntary withdrawal of PPs and focal points, as well as changes to company names, legal status, contact details and specimen signatures; and/or,
    ☞ <Scope c> Communicate on all other project or programme-related matters not covered by <scope a> or <scope b> above.
♦ The project participants may designate separate entities for each scope of authority either in a sole, shared or joint focal point role and shall designate two or more focal points for a shared or joint focal point role.

**Authorised signatory and Signature** [PCP ver. 3.2, para 28-30]
♦ Signature is defined as an agreed means of authentication of an MoC statement by a PP, or a given communication from a focal point entity, as the context requires.
♦ The PPs and the focal points may designate one primary authorized signatory and one alternate authorized signatory. The signature of either the primary or alternate authorized signatory shall suffice for authenticating the project participant’s or the focal point’s consent or instruction(s).
♦ A PP that is also a focal point for the same CDM project activity or PoA may designate different authorized signatories for the PP status and for the focal point status.
♦ For CDM PoAs, the CME shall be either the sole or a joint focal point for each scope of authority. The number of joint focal points for a PoA shall be limited to five, or equal to the number of host Parties if greater than five.

**Private contractual obligations** [PCP ver. 3.2, para 31]
♦ The project participants shall not include or refer to private contractual arrangements in an MoC statement such as the establishment of conditions for the designation or change of focal points or the purchase and/or sale of CERs. The project participants and focal points shall be solely responsible for honouring such arrangements.
Changes of Modality and Communications [PCP ver.3.2, para157-175]

The authorized signatories or the legal representatives of the project participants may directly notify the secretariat on any issues regarding the F-CDM-MOC or its annexes through a dedicated e-mail account made available on the CDM Registry section of the UNFCCC CDM website.

Requirements on changes to focal points
- Designation of the focal points in a registered CDM project activity: Submitting a new F-CDM-MOC duly signed by all PPs, either through the focal point(s) for scope of authority (b) or Any of the project participants directly.
- Designation of the focal points in a registered CDM PoA: submitting a new F-CDM-MOC duly signed by and through the CME. When the CME is changing, the incoming coordinating/managing entity shall sign and submit the F-CDM-MOC.

Requirements on changes of CME for PoA
If the CME for a registered CDM PoA has changed after the registration of the PoA, the DOE undertaking the next inclusion of a CPA shall submit:
(a) New letter(s) of authorization from each respective host Party stating the change of coordinating/managing entity;
(b) A confirmation from the new CME that the PoA will be developed and implemented with the same set framework as originally described in the PoA-DD;
(c) A validation opinion from a DOE regarding the compliance of the new coordinating/managing entity with the relevant requirements in the PS.

Requirements on changes to PPs
The focal point(s) for scope of authority (b) shall submit annex 2 of the F-CDM-MOC for each of the following changes:
(a) Addition of a project participant, (b) Changes related to entity names/legal status, (c) Withdrawal of a project participant, (d) Changes related only to contact details and specimen signatures.

BOX: Direct communication with stakeholders [EB62 Anx15]

"Modalities and Procedures for Direct Communication with Stakeholders (ver.1)"

This procedure provides for means of communication of the EB with stakeholders in the following two main areas:
(a) Policy and procedural matters: this area covers regular interactions with stakeholders as well as ad-hoc consultations with stakeholders in situations where CDM rules (e.g. procedures, methodologies, standards) that have a significant impact on them are being developed or revised.
(b) Case-specific matters: this area covers situations related to case submissions (e.g. requests for registration, issuance, deviation or revision of monitoring plans, proposals of new methodologies, requests for revision of approved methodologies and clarification on approved methodologies or methodological tools).

Stakeholders include: DNAs (see Chp4-2), AEs/DOEs, PPs, and other stakeholders.
5. Conditions for CDM projects

♦ When planning a CDM project activity, it is necessary to keep in mind following points:

☞ The purpose of the CDM shall be to assist non-Annex I Parties in achieving sustainable development and in contributing to the ultimate objective of the Convention, and to assist Annex I Parties in achieving compliance with their commitments. [KP Art.12 para2]

⇒ It is the host Party’s prerogative to confirm whether a CDM project activity assists it in achieving sustainable development. [CP/2001/13/Ad2, p20]

☞ A CDM project activity is additional if GHG emissions are reduced below those that would have occurred in the absence of the registered CDM project activity. [CMP/2005/8/Ad1, p16 para43]

☞ Annex I Parties are to refrain from using CERs generated from nuclear facilities to meet their quantified GHG emissions reduction targets; [CP/2001/13/Ad2, p20]

⇒ The eligibility of land use, land-use change and forestry project activities under the CDM is limited to afforestation and reforestation (A/R); [CP/2001/13/Ad2, p22 para7(a)]

♦ It is necessary to prepare a project design document (PDD) in order to be registered as a CDM project activity.

Public funding for CDM projects

☞ Public funding for CDM projects from Annex I Parties is not to result in the diversion of official development assistance (ODA) and is to be separate from and not counted towards the financial obligations of Annex I Parties. [CP/2001/13/Ad2, p20]

⇒ Annex I Parties shall provide an affirmation that such funding does not result in a diversion of ODA and is separate from and is not counted towards the financial obligations of those Parties. [PDD GL ver.7, p9]

⇒ There is also the document "ODA Eligibility of Expenditures under the Clean Development Mechanism" which was endorsed at the DAC High Level Meeting on 15-16 April 2004. [DAC/CHAIR(2004)4/FINAL]

BOX: CDM project activities under a programme of activities [CMP/2005/8/Ad1, p97 para20]

☞ Local/regional/national policy or standard cannot be considered as a CDM project activity

☞ But that project activities under a programme of activities can be registered as a single CDM project activity provided that approved baseline and monitoring methodologies are used that, inter alia, define the appropriate boundary, avoid double counting and account for leakage, ensuring that the emission reductions are real, measurable and verifiable, and additional to any that would occur in the absence of the project activity. (chap.21)

BOX: Carbon dioxide capture and storage (CCS)

☞ The CMP7 adopts the modalities and procedures for carbon dioxide capture and storage in geological formations as CDM project activities. [Decision 10/CMP.7 para1]

⇒ The CMP7 decides to periodically review the modalities and procedures for carbon dioxide capture and storage in geological formations. The first review shall be carried out no later than five years after the adoption of this decision. [Decision 10/CMP.7 para2]

☞ There are “Guidelines for competing the proposed new carbon capture and storage baseline and monitoring methodology form” [EB67 Anx25], “Guidelines for competing the project design document form for carbon capture and storage CDM project activities” [EB67 Anx26] and “Procedure for the submission and consideration of a proposed new baseline and monitoring methodology for carbon capture and storage CDM project activities” [EB67 Anx27].
6. Making PDD

Identifying a type of CDM project activities

Is it a GHG emission reduction project activity eligible for the CDM? (chap.5)
- Yes
  - Is it eligible for a small-scale CDM project activity? (chap.19-1)
    - Yes
      - PDD for small-scale project activities (F-CDM-SSC-PDD)
    - No or not clear
      - Skip the rest (similar to the steps written in the below diagram)
- No
  - Project Design Document (F-CDM-PDD)

Is it a GHG removal by afforestation and reforestation project activity eligible for the CDM? (chap.20-1)
- Yes
  - Is it eligible for a small-scale afforestation and reforestation CDM project activity? (chap.20-3)
    - Yes
      - PDD for small-scale A/R project activities (F-CDM-SSC-AR-PDD)
    - No or not clear
      - Skip the rest (similar to the steps written in the below diagram)
- No
  - PDD for A/R project activities (F-CDM-AR-PDD)

Is it a programme of activities eligible for the CDM? (chap.21)
- Yes
  - There are various types of CDM programme of activity
  - Programme of Activities Design Document (F-CDM-PoA-DD)
  - CDM Programme Activity Design Document (F-CDM-CPA-DD)
  - etc
- No or not clear
  - Skip the rest (similar to the steps written in the below diagram)

Determining a baseline and monitoring methodology

Is there an approved methodology (AM) applicable to the project activity? (Att. 1)
- Yes
  - Answers
    - Request for clarifications to an AM
      - Approval
    - Request for deviation
      - Approval
    - Request for a revision of an AM (chap.7-7)
      - Approval
    - Submission of a proposed new methodology (NM) (chap.7-6)
    - Writing the F-CDM-PDD by applying AMs
- No or not clear
  - There is “Clarifications to PPs on when to request revision, clarification to an AM or a deviation”. (Version 2)[EB31 Anx12]
<table>
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<tr>
<th>Emission Reduction</th>
<th>Normal-scale CDM project activity</th>
<th>Small-scale CDM project activity</th>
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<td><strong>Guideline</strong></td>
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<td>F-CDM-MR</td>
<td>Guidelines for completing the monitoring report form ver. 3 [EB70 Anx11]</td>
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There is information on actual emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards.
7. Baseline

7.1. Concept of the baseline and additionality

♦ The baseline (scenario and emissions) for a CDM project activity is the scenario that reasonably represents GHG emissions that would occur in the absence of the proposed project activity. [CMP/2005/8/Ad1, p16 para44]

Difference between the baseline emissions and GHG emissions after implementing the CDM project activity (project emissions) is emission reductions.

A baseline (scenario and emissions) shall be established:
(a) By PPs in accordance with provisions for the use of approved and new methodologies;
(b) In a transparent and conservative manner regarding the choice of approaches, assumptions, methodologies, parameters, data sources, key factors and additionality, and taking into account uncertainty;
(c) On a project-specific basis;
(d) In the case of small-scale CDM project activities, in accordance with simplified procedures developed for such activities (chap. 19-2);
(e) Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector. [CMP/2005/8/Ad1, p16 para45]

Before calculating baseline emissions, it is necessary to identify baseline scenarios.
A baseline (emissions) shall cover emissions from all gases, sectors and source categories within the project boundary. [CMP/2005/8/Ad1, p16 para44]

A CDM project activity is additional if GHG emissions are reduced below those that would have occurred in the absence of the registered CDM project activity. [CMP/2005/8/Ad1, p16 para43]

The DOE shall review the PDD to confirm that the project activity is expected to result in a reduction in GHG emissions that are additional to any that would occur in the absence of the proposed project activity. [CMP/2005/8/Ad1, p14 para37(d)]

PPs have to write explanation of how and why this project activity is additional and therefore not the baseline scenario in accordance with the selected baseline methodology. [PDD GL ver.7, p12]

If the starting date of the project activity is before the date of validation, provide evidence that the incentive from the CDM was seriously considered in the decision to proceed with the project activity. This evidence shall be based on (preferably official, legal and/or other corporate) documentation that was available at, or prior to, the start of the project activity (chap. 8-1). [PDD GL ver.7, p12]

“The tool for the demonstration and assessment of additionality“ provides a general framework for demonstrating and assessing additionality. PPs may also propose other tools for the demonstration of additionality (Att 3). [EB09 Anx3, para3]

There is a “Combined tool to identify the baseline scenario and demonstrate additionality“ [EB60 Anx7]

There are guidelines for demonstration of additionality for small scale (chap. 19-2) and micro scale (Att 4)

BOX: Wording
PPs shall refrain from providing glossaries or using key terminology not used in the COP documents and the CDM glossary (environment/investment additionality). [EB09 Anx3, para3]
7-2. Baseline scenario

- The baseline scenario for a CDM project (non-A/R) or CPA (non-A/R) is the scenario for a CDM project or CPA that reasonably represents the anthropogenic emissions by sources of GHG that would occur in the absence of the proposed CDM project or CPA. [Glos ver.7, p7]
- Different scenarios may be elaborated as potential evolutions of the situation existing before the proposed CDM project.
  - The continuation of a current activity could be one of them;
  - Implementing the proposed project activity may be another;
  - And many others could be envisaged.
- Baseline methodologies shall require a narrative description of all reasonable baseline scenarios.
- To elaborate the different scenarios, different elements shall be taken into consideration.
  - For instance, the PPs shall take into account national / sectoral policies and circumstances, ongoing technological improvements, investment barriers, etc.
- The baseline scenario may include a scenario where future GHG emissions are projected to rise above current levels, due to the specific circumstances of the host Party. [CMP/2005/8/Ad1, p16 para46]

Clarifications on the treatment of national and/or sectoral policies and regulations in determining a baseline scenario

The EB agreed to differentiate the following 2 types of national and/or sectoral policies that are to be taken into account when establishing baseline scenarios: [PS ver.3, para44-45]

- **Type E+** That give comparative advantages to more emissions-intensive technologies or fuels.
  - Only national and/or sectoral policies or regulations that have been implemented before adoption of the Kyoto Protocol (11 December 1997) shall be taken into account when developing a baseline scenario.
  - If such national and/or sectoral policies were implemented since the adoption of the Kyoto Protocol, the baseline scenario should refer to a hypothetical situation without the national and/or sectoral policies or regulations being in place.

- **Type E-** That give comparative advantages to less emissions-intensive technologies (e.g. public subsidies to promote the diffusion of renewable energy or to finance energy efficiency programs).
  - National and/or sectoral policies or regulations that have been implemented since the adoption by the COP of the CDM M&P(11 November 2001) need not be taken into account in developing a baseline scenario.
  - i.e. the baseline scenario could refer to a hypothetical situation without the national and/or sectoral policies or regulations being in place.
Baseline methodology

- Baseline emission under the selected baseline scenarios shall be calculated by PPs in accordance with approved methodologies (AMs) or new methodologies (NMs).

A baseline methodology approved by the EB is publicly available along with relevant guidance on the UNFCCC CDM website (http://unfccc.int/cdm).

- DOEs can submit queries regarding the applicability of approved methodologies.

- If a proposed CDM project activity or PoA intends to apply a new methodology, such methodology has to be approved by the EB prior to the submission of a request for registration of the project activity or PoA. [EB70 Anx36]

- There is “Technical Guidelines for the Development of New Baseline and Monitoring Methodologies Version 1”. [EB24 Anx16]

Baseline approach (para 48 of the CDM M&P) [Glos ver. 7, p6][CMP/2005/8/Ad1, p16 para48]

The approach used to establish a baseline methodology. The CDM rules and requirements prescribe the baseline approaches that can apply to CDM project activities and CPAs. Project participants shall select from among the following approaches.

(a) Existing actual or historical emissions, as applicable; or

(b) Emissions from a technology that represents an economically attractive course of action, taking into account barriers to investment; or

(c) The average emissions of similar project activities undertaken in the previous 5 years, in similar social, economic, environmental and technological circumstances, and whose performance is among the top 20 per cent of their category. <See [EB08 Anx1 para4-5] for guidance>

Guidelines for determining baselines for measures [EB69 Anx21]

- The objective of these guidelines is to ensure consistency of the approaches used in the determination of baselines in the different methodologies, by providing standardized approaches to determine the baseline for different investment scenarios defined for measure(s).

- The guidelines elaborate when and under which circumstances a baseline based on paragraph 48(a), (b), or (c) of 3/CMP.1

- The guidelines are applicable to non-afforestation and reforestation (non-A/R) sectors.

BOX: Temporarily result in “negative emission reductions” [EB21 Rep, para18]

- In some cases and for some methodologies, project activities may temporarily result in “negative emission reductions” in a particular year, for example due to poor performance or due to leakage effects outweighing emission reductions.

- In these cases, proposed NMs should stipulate that if a project activity temporarily results in “negative emission reductions”, any further CERs will only be issued when the emissions increase has been compensated by subsequent emission reductions by the project activity.

Guidelines for determining baselines for measures [EB69 Anx21]

- The objective of these guidelines is to ensure consistency of the approaches used in the determination of baselines in the different methodologies, by providing standardized approaches to determine the baseline for different investment scenarios defined for measure(s).

- The guidelines elaborate when and under which circumstances a baseline based on paragraph 48(a), (b), or (c) of 3/CMP.1

- The guidelines are applicable to non-afforestation and reforestation (non-A/R) sectors.

BOX: Proposed project activities applying more than one methodology [EB08 Anx1, para6]

- If a proposed CDM project activity comprises different “sub-activities” requiring different methodologies, PPs may forward the proposal using one F-CDM-PDD but shall complete the methodologies sections for each “sub-activity”.
7-4. Standardized baselines

Definition of Standardized Baselines [CMP/2010/L8, p6 para44, 47, 48]
♦ A baseline established for a Party or a group of Parties to facilitate the calculation of emission reduction and removals and/or the determination of additionality for clean development mechanism project activities, while providing assistance for assuring environmental integrity.
♦ The application of the standardized baselines shall be at the discretion of the host country’s designated national authorities.
♦ The Executive EB to periodically review, as appropriate, the standardized baselines used in the methodologies.

Procedure for developing Standardized Baselines [CMP/2010/L8, p6 para45, 46]

Top-down approach
☞ The Executive Board to develop standardized baselines, as appropriate, in consultation with relevant designated national authorities, prioritizing methodologies that are applicable to least developed countries, small island developing States, Parties with 10 or less registered CDM project and underrepresented project types or regions.

Bottom-up approach
☞ Parties, project participants, as well as international industry organizations or admitted observer organizations through the host country’s designated national authority, may submit proposals for standardized baselines applicable to new or existing methodologies, for consideration by the EB.

BOX: Financial sources and capacity-building of developing standardized baselines [CMP/2010/L8, p6 para45, 46]
☞ CMP requested the EB to explore different financial sources to cover the costs of developing and establishing standardized baselines including direct resources from the annual budget of the clean development mechanism.
☞ CMP also encouraged Parties included in Annex I to the Convention and Parties not included in Annex I to the Convention with relevant experience to provide capacity-building and/or support for developing standardized baselines.

BOX: Other guidance on the standardized baselines [CMP/2010/L8]
☞ Standardization is being used in some approved baseline and monitoring methodologies under the CDM.
☞ Baseline and monitoring methodologies using standardized baselines can be developed, proposed by project participants and approved by the EB of the CDM under the modalities and procedures adopted by decisions 3/CMP.1 and 5/CMP.1.
☞ The use of standardized baselines could reduce transaction costs, enhance transparency, objectivity and predictability, facilitate access to the CDM, particularly with regard to underrepresented project types and regions, and scale up the abatement of greenhouse gas emissions, while ensuring environmental integrity.
7-5. Procedure for the submission and consideration of SBs

(1) Parties, project participants, international industry organizations or admitted observer organizations may propose a standardized baseline (SB) for a Party [EB68 Anx32, para6].

Note: Data used to establish the proposed SB shall be provided in a sector-specific data template published by the secretariat on the UNFCCC CDM website. If no applicable data template is available on the UNFCCC CDM website at the time of the DNA’s submission of the proposed SB, the proponent of the SB shall propose a sector specific data template for its publication, or, if applicable, request the revision or clarification of a published data template in accordance with the modalities in appendix 1 of this procedure: [EB68 Anx32, Apx1].

Note: For a Party with fewer than 10 registered CDM project activities as of 31 December 2010, the assessment report may be omitted in up to the first three submissions of a proposed SB regardless of the sector for the Party. [EB68 Anx32 para9]

If the DNA is of a Party that has 10 or fewer registered CDM project activities as of 31 December 2010, or represents a group of Parties, each of which has 10 or fewer registered CDM project activities as of 31 December 2010, the DNA may apply for funding from the secretariat for the DOE’s preparation of the assessment report in accordance with the modalities in appendix 2 of this procedure. [EB68 Anx32, Apx2].

(2) Approve the proposed SB. Where the proposed SB is developed for a group of Parties, it shall be approved by the DNAs of all these Parties [EB68 Anx32, para7].

(3) Upload the following documentation to submit the proposed SB: [EB68 Anx32, para8]
(a) The duly completed Proposed SB submission form (form F-CDM-PSB);
(b) All additional documentation supporting the submission;
(c) An assessment report on the quality of the data collection, processing and compilation to establish the proposed SB in accordance with relevant procedures or guidelines adopted by the EB.

(4) Undertake initial assessment on whether: [EB68 Anx32, para11]
(a) The form F-CDM-PSB has been duly completed;
(b) The proposed SB was derived from an approved methodology or tool, or from the "Guidelines for the establishment of sector specific SBs";
(c) The DNA submitted all the information required;
(d) An assessment report was submitted presenting how the data was collected, processed and compiled to establish the proposed SB and includes an opinion on whether the data was collected and processed in accordance with relevant procedures or guidelines adopted by the EB.

(5) Inform the DNA of the outcome of the initial assessment. If the secretariat finds that the required documentation or information is incomplete, it shall notify the DNA and the proponent of the proposed SB accordingly. [EB68 Anx32, para12]

(6) The DNA should provide the missing documents or information within 42 days of the notification. [EB68 Anx32, para12]

(7) The secretariat shall conclude the initial assessment within 14 days of receipt of missing documents or information and inform the DNA of the conclusion of the initial assessment. [EB68 Anx32, para13]
Within 28 days of successful conclusion of the initial assessment, the secretariat shall:

(a) Assign a reference number to the proposed SB;
(b) Make the submitted documentation publicly available on the UNFCCC CDM website;
(c) In the case referred to in “Note” above, prepare an assessment report presenting how the data was collected, processed and compiled to establish the proposed SB in accordance with QA/QC guideline; [Att 7] [EB66 Anx49]
(d) Prepare a draft recommendation on the proposed SB, using the form F-CDM-PSB-REC.

The secretariat shall include in its draft recommendation one of the following courses of actions: [EB68 Anx32 para15]
(a) Approve the proposed SB; or
(b) Requires further input (e.g. additional information or modification to the submitted documentation) from the DNA; or
(c) Not to approve the proposed SB.

(9) The secretariat shall appoint two (2) members of a panel or working group and forward its draft recommendation to them. [EB68 Anx32, para16]

(10) The two appointed members of a panel or working group shall, within seven (7) days of receipt of the draft recommendation, independently assess the proposed SB and the draft recommendation, and inform the secretariat of the outcome of their assessment. [EB68 Anx32, para18]

Both of the appointed members of a panel or working group agree to the draft recommendation to approve or not to approve the proposed SB.

(11) Notify the DNA and the proponent of the proposed SB accordingly. [EB68 Anx32, para20]

(12) Submit the requested input within 28 days of the notification. If the DNA fails to provide the requested input within the deadline, the secretariat shall suspend processing the submission any further until it receives the requested input. [EB68 Anx32, para20]

(13) Revise the draft recommendation to recommend either to approve or not to approve the proposed SB, forward it as the recommendation to the EB, and make it publicly available on the UNFCCC website. [EB68 Anx32, para20]

(14)-1. If no member of the EB objects to the recommendation received, the recommended course of action shall be deemed to be the decision adopted by the EB. [EB68 Anx32, para28]

(14)-2. If a member of the EB objects to the recommendation more than two (2) weeks prior to the next EB, the case shall be placed on the agenda of the next EB meeting. [EB68 Anx32, para30]

(15) inform the DNA of the decision and make the decision and guidance publicly available on the UNFCCC CDM website. [EB68 Anx32, para33]
### Development of new methodology or methodological tool

#### Bottom-up process

1. **Submission of proposed new methodology**
   - **The secretariat** shall publish the schedules of the meetings of the methodological panel and working groups and the deadlines for the submission of proposals of new methodologies.
   - **The proponent** of a planned CDM project activity may propose a new methodology to the EB by submitting the following documents:
     - a) The duly completed CDM-PNM-FORM
     - b) The proposed new methodology
     - c) The draft PDD or PoA-DD with at least the following sections
       i. For planned CDM project activities: a) Description of project activity, b) Application of selected approved baseline and monitoring methodology, c) Duration of crediting period
       ii. For planned CDM PoAs: a) General description of PoA, b) Demonstration of additionality and development of eligibility criteria, c) Duration of PoA, d) General description of a generic CPA, e) Application of baseline and monitoring methodology
     - A fee of **USD1,000** shall be payable for each submission from the proponent

2. **Completeness check**
   - **The secretariat** shall conduct completeness check of the submission within **7 days** of the deadline for submissions.

3. **Initial assessment**
   - **The secretariat** shall conduct an initial assessment of the submission using the CDM-PNIA-FORM within **30 days** of the deadline for submissions.
   - If the submission is concluded as qualified for consideration, **the secretariat** shall issue a unique reference number to the proposed new methodology and make the submission publicly available on the UNFCCC CDM website for global stakeholder consultation. The duration shall be **15 days**.

4. **Preparation of draft recommendation**
   - **The secretariat** shall prepare a draft development plan of the new methodology or methodological tool using CDM-NMD-FORM
   - **The secretariat** shall select two members of the relevant methodological panel or working group
   - **The secretariat** shall prepare a draft new methodology or methodological tool using CDM-NMP-FORM

5. **Consideration by panel or working group**
   - **The relevant methodological panel or working group** shall consider the recommendation and prepare a draft recommendation with in **three consecutive meetings**.

6. **Consideration by the EB**
   - **The EB** shall decide to either
     - a) Approve the proposed new methodology as recommended by the relevant methodological panel or working group;
     - b) Reject the proposed new methodology; or
     - c) Request the relevant methodological panel or working group to review the recommendation to the EB, and provide guidance on the issues for review
   - If the EB approves the proposed new methodology, **the secretariat** shall publish the approved new methodology on the UNFCCC CDM website within **7 days** of the approval.

7. **Other**
   - **The secretariat** shall maintain a publicly available list of all proposed new methodologies deemed qualified for consideration on the UNFCCC website.

#### Top-down process

1. **Initiation**
   - **The EB** may decide to develop a new methodology (including a new consolidated methodology) or methodological tool at any time

2. **Preparation of draft new methodology or methodological tool**
   - **The secretariat** shall prepare a draft development plan of the new methodology or methodological tool using CDM-NMD-FORM
   - **The secretariat** shall select two members of the relevant methodological panel or working group
   - **The secretariat** shall prepare a draft new methodology or methodological tool using CDM-NMP-FORM

3. **Consideration by panel or working group**
   - **The relevant methodological panel or working group** shall consider the draft new methodology or methodological tool and prepare a draft recommendation to the EB
   - **The secretariat** shall make the draft recommendation to the EB publicly available on the UNFCCC CDM website for global stakeholder consultation. The duration shall be **15 days**.

4. **Consideration by the EB**
   - **The EB** shall decide to either
     - a) Approve the proposed new methodology or methodological tool;
     - b) Reject the proposed new methodology or methodological tool; or
     - c) Request the relevant methodological panel or working group to review the recommendation to the EB and provide guidance on the issues for review
   - If the EB approves the proposed new methodology or methodological tool, **the secretariat** shall publish the approved new methodology or methodological tool on the UNFCCC CDM website within **7 days** of the approval.
Revision of approved methodology or methodological tool

Bottom-up process
1. Submission of proposed new methodology
   - The secretariat shall publish the schedules of the meetings of the methodological panel and working groups and the deadlines for the submission of requests for revision of an approved methodology or methodological tool.
   - The proponent of a planned CDM project activity may request the EB to revise an approved methodology or methodological tool by submitting the following documents:
     a) The duly completed CDM-AMR-FORM
     b) The draft PDD or PoA-DD with at least the following sections
        i. For planned CDM project activities:
           a) Description of project activity,
           b) Application of selected approved baseline and monitoring methodology,
           c) Duration of crediting period
        ii. For planned CDM PoAs:
           a) General description of PoA,
           b) Demonstration of additionality and development of eligibility criteria,
           c) Duration of PoA,
           d) General description of a generic CPA,
           e) Application of baseline and monitoring methodology
   - A request shall not include proposed changes to the methodology or methodological tool that would result in the exclusion, restriction or narrowing of the applicability conditions of the methodology or methodological tool as a whole for other project activities or PoAs.
2. Completeness check
   - The secretariat shall conduct completeness check of the submission within 7 days of the deadline for submissions.
3. Initial assessment
   - The secretariat shall conduct an initial assessment of the submission using the CDM-AMIA-FORM within 30 days of the deadline for submissions.
   - If the submission is concluded as qualified for consideration, the secretariat shall make the submission publicly available on the UNFCCC CDM website for global stakeholder consultation. The duration shall be 15 days.
4. Preparation of draft recommendation
   - The secretariat shall prepare a draft recommendation to the relevant methodological panel or working group on the proposed revised methodology or methodological tool and using the CDM-AMRR-FORM.
   - The secretariat shall select two members of the relevant methodological panel or working group and forward the draft recommendation to them for their review.
5. Consideration by panel or working group
   - The relevant methodological panel or working group shall consider the recommendation and prepare a draft recommendation to the EB within two consecutive meetings.
6. Consideration by the EB
   - The EB shall decide to either
     a) Approve the proposed revised methodology or methodological tool as recommended by the relevant methodological panel or working group, indicating:
        i. The revision is a major revision; or
        ii. The revision is a minor revision;
     b) Reject the proposed revised methodology or methodological tool; or
     c) Request the relevant methodological panel or working group to review the recommendation and prepare a draft recommendation to the EB and provide guidance on the issues for review
   - If the EB approves the proposed revised methodology or methodological tool, the secretariat shall publish the approved revised methodology or methodological tool on the UNFCCC CDM website within seven days of the approval.
7. Other
   - The secretariat shall maintain a publicly available list of all proposed revised methodologies and methodological tools deemed qualified for consideration on the UNFCCC website.

Top-down process
1. Initiation
   - The EB shall also decide to either
     a) Put on hold the approved methodology or methodological tool with immediate effect
     b) Put on hold the approved methodology or methodological tool with a grace period of 28 days.
     c) Maintain the current version of the approved methodology or methodological tool until the expiry of its validity
2. Preparation of draft new methodology or methodological tool
   - The secretariat shall prepare a draft revised methodology or methodological tool using the CDM-AMRD-FORM
   - The secretariat shall select two members of the relevant methodological panel or working group
3. Consideration by panel or working group
   - The relevant methodological panel or working group shall consider the draft new methodology or methodological tool and prepare a draft recommendation to the EB
   - The secretariat shall make the draft recommendation to the EB publicly available on the UNFCCC CDM website for global stakeholder consultation. The duration shall be 15 days.
4. Consideration by the EB
   - The EB shall decide to either
     a) Approve the proposed revised methodology or methodological tool;
     b) Reject the proposed revised methodology or methodological tool; or
     c) Request the relevant methodological panel or working group to review the recommendation to the EB and provide guidance on the issues for review
   - If the EB approves the proposed revised methodology or methodological tool, the secretariat shall publish the approved revised methodology or methodological tool on the UNFCCC CDM website within 7 days of the approval.
Clarification of approved methodology or methodological tool

Bottom-up process

1. Submission of proposed new methodology
   - The secretariat publish the schedules of the meetings of the methodological panel and working groups and the deadlines for the submission of requests for clarification of an approved methodology or methodological tool.
   - The proponent of a planned CDM project activity may request clarification of an approved methodology or methodological tool, by submitting the duly completed CDM-AMC-FORM to the secretariat.

2. Completeness check
   - The secretariat shall conduct completeness check of the submission within 7 days of the deadline for submissions.

3. Initial assessment
   - The secretariat shall conduct an initial assessment of the submission using the F-CDM-AMC-IA within 15 days of the deadline for submissions to determine either that:
     a) It does not involve any regulatory and/or technical ambiguity, or involves only simple regulatory and/or technical issues, hence requires no analysis or only a simple analysis to formulate a clarification; or
     b) It involves complex regulatory and/or technical issues, hence requires a thorough analysis to formulate a clarification.

4. Fast track
   - If the submission is determined as being the case referred to in paragraph 3(a) above, the secretariat shall prepare a clarification using the CDM-AMCR-FORM and send it to the enquirer within 30 days of the deadline for submissions.
   - The secretariat shall send a draft clarification to the panel or working group within 30 days of the deadline for submissions.
   - If no member of the panel or working group objects to the draft clarification within 7 days of the receipt of the draft clarification, the clarification shall be deemed finalized by the panel or working group.
   - The secretariat shall publish the clarification on the UNFCCC CDM website.

5. Regular track
   - If the submission is determined as being the case referred to in paragraph 3(b) above, the secretariat shall prepare a draft recommendation of a clarification to the relevant methodological panel or working group using the CDM-AMCR-FORM.
   - The secretariat shall select one member of the relevant methodological panel or working group and forward the draft recommendation to him/her for review.
   - The relevant methodological panel or working group shall consider the recommendation, finalize the recommendation to the EB within 1 meeting.
   - The EB shall decide to either:
     a) Approve the recommended clarification; or
     b) Request the relevant methodological panel or working group to review the recommendation
       - The secretariat shall publish the clarification on the UNFCCC CDM website

Top-down process

If the EB, a relevant methodological panel or working group, or the secretariat finds it necessary to clarify provisions of an approved methodology or methodological tool, the process to revise the methodology or methodological tool shall be followed. In this case, the revised methodology or methodological tool shall incorporate all relevant clarifications issued prior to the revision.

BOX: Validity of new, revised and previous versions

☞ An approved new or revised methodology or methodological tool shall be effective from the date of publication on the UNFCCC CDM website.
☞ If the EB approves a revised methodology or methodological tool indicating that it is a major revision, the version number of the methodology or methodological tool shall increase by one whole number (e.g. from 1.0 to 2.0), and the previous version shall continue to be valid for 240 days from the date that the revised version becomes effective unless the previous version has been put on hold by the EB.
☞ If the EB approves a revised methodology or methodological tool indicating that it is a minor revision, or if an editorial revision to an approved methodology or methodological tool has been, the version number of the methodology or methodological tool shall increase by one fractional number (e.g. from 1.0 to 1.1), and the previous version shall continue to be valid until the next revision for mandatory use.
☞ If the EB approves a new or revised consolidated methodology or methodological tool, the approved methodology or methodological tool that has been consolidated shall continue to be valid for 240 days from the date when the consolidated methodology or methodological tool becomes effective unless the approved methodology or methodological tool that has been consolidated has been put on hold by the EB.
☞ For the purpose of publication of a monitoring report and submission of a request for issuance, a project activity or PoA shall apply the version of the methodology or methodological tool that the project activity or PoA has been registered with.
☞ The revision of an approved methodology or methodological tool or the consolidation of methodologies or methodological tools shall not affect registered CDM project activities or PoAs until the end of the crediting periods.
8. Starting date and crediting period

8-1. Starting date of a CDM project activity

The definition and clarification of starting date of a CDM project activity [EB41 Rep. para67]
♦ The start date of a CDM project activity is “the earliest date at which either the implementation or construction or real action of a project activity begins”.
☞ The F-CDM-PDD should contain not only the date, but also a description of how this start date has been determined, and a description of the evidence available to support this start date.
☞ Further, it should be noted that if the start date of a proposed CDM project activity is prior to the date of publication of the PDD for the global stakeholder consultation, project participants shall demonstrate that the CDM benefits were considered necessary in the decision to undertake the project as a proposed CDM project activity. [PS ver.3, para26]
♦ The EB further clarified that: “In light of the above definition, the start date shall be considered to be the date on which the PP has committed to expenditures related to the implementation or related to the construction of the project activity.
☞ This, for example, can be the date on which contracts have been signed for equipment or construction/operation services required for the project activity.
☞ Minor pre-project expenses, e.g. the contracting of services /payment of fees for feasibility studies or preliminary surveys, should not be considered in the determination of the start date as they do not necessarily indicate the commencement of implementation of the project.
♦ For those project activities which do not require construction or significant pre-project implementation (e.g. light bulb replacement) the start date is to be considered the date when real action occurs.
☞ In the context of the above definition, pre-project planning is not considered “real action”.
♦ The EB further noted that there may be circumstances in which an investment decision is taken and the project activity implementation is subsequently ceased. If such project activities are restarted due to consideration of the benefits of the CDM the cessation of project implementation must be demonstrated by means of credible evidence such as cancellation of contracts or revocation of government permits.
☞ The CDM the investment analysis should reflect the economic decision-making context at point of the decision to recommence the project. [EB62 Anx5, para7]
♦ The EB shall register the proposed project activity or PoA as a CDM project activity or PoA if the secretariat does not receive a request for review from a Party involved or at least three members of the EB. The effective date of registration shall be the date on which the DOE submitted a complete request for registration. [PCP ver.3.2, para76-87]
♦ If the EB’s final decision made in the process of a review to register the proposed CDM project activity or PoA, the secretariat shall register it as a CDM project activity or PoA on the first working day subsequent to the finalization of the decision. The effective date of registration in such cases shall be the day on which the latest revisions to the validation report and/or supporting documentation were submitted. [PCP ver.3.2, para98]
The EB decided that for project activities Assessment of real and continuing actions shall be validated by the DOE and the validation CDM in

 Guidelines on the demonstration and assessment of prior consideration of the CDM

In consideration of requests for registration, the EB takes notes that the issue of prior consideration of the CDM as a major element in assessing that the CDM benefits were considered necessary in the decision to undertake the project as a CDM project activity. As such the EB has introduced a guidance on the means of demonstrating compliance with this requirement.

New project activities

The EB decided that for project activities with a starting date on or after 2 August 2008, the PP must inform a Host Party DNA, if the DNA exists, and the UNFCCC secretariat in writing of the commencement of the project activity and of their intention to seek CDM status. [EB72 Anx5]

⇒ Such notification must be made within 6 months of the project activity start date.
⇒ Such notification is not necessary if a PDD has been published for global stakeholder consultation or a NM proposed to the EB before the project activity start date.

When validating a project activity with a start date on or after 2 August 2008 DOEs shall ensure by means of confirmation from the DNA or UNFCCC secretariat that such a notification has been provided. If such a notification has not been provided the DOE shall determine that the CDM was not seriously considered in the decision to implement the project activity.

Additionally for project activities for which a PDD has not been published for global stakeholder consultation or a NM proposed or request for revision of an AM is requested, every subsequent 2 years after the initial notification the PPs shall inform the DNA and/or the UNFCCC secretariat of the progress of the project activity.

Existing project activities with a start date prior to 2 August 2008

Proposed project activities with a start date before 2 August 2008, for which the start date is prior to the date of publication of the PDD for global stakeholder consultation, are required to demonstrate that the CDM was seriously considered in the decision to implement the project activity. Such demonstration requires the following elements to be satisfied:

⇒ The PP must indicate awareness of the CDM prior to the project activity start date, and that the benefits of the CDM were a decisive factor in the decision. Evidence to support this would include one or more of the following: contracts with consultants for CDM/PDD/methodology services, draft versions of PDDs and underlying documents such as letters of authorization, and if available, letters of intent, emission reduction purchase agreement (ERPA) term sheets. ERPAs or other documentation related to the potential sale of CERs (including correspondence with multilateral financial institutions or carbon funds), evidence of agreements or negotiations with a DOE for validation services, submission of a new methodology or requests for clarification or revision of existing methodologies to the EB, publications in newspaper, interviews with DNAs, earlier correspondence on the project with the DNA or the UNFCCC secretariat.

Assessment of real and continuing actions shall be validated by the DOE and the validation should focus on real documented evidence, including an assessment by the DOE of the authenticity of the evidence. Letters, e-mail exchanges and other documented communications may help to substantiate the evidence, but can be considered as evidence only after the DOE has assessed and confirmed the authenticity of such communications, inter alia through cross-checking (e.g. interviews). In such cases the DOE must describe the cross-checking process in detail in the validation report.

In validating proposed CDM project activities where:

⇒ there is less than 2 years of a gap between the documented evidence the DOE shall conclude that continuing and real actions were taken to secure CDM status;
⇒ the gap is greater than 2 years and less than 3 years, the DOE may validate that continuing and real actions were taken to secure CDM status for the project activity and shall justify any positive or negative validation opinion based on the context of the evidence and information assessed;
⇒ the gap is greater than 3 years, the DOE shall conclude that continuing and real actions were not taken to secure CDM status for the project activity.

If evidence to support the serious prior consideration of the CDM as indicated above is not available the DOE shall determine that the CDM was not considered in the decision to implement the project activity.

BOX: Guidelines on the prior consideration and PoA

The EB agreed that the “Guidelines for the demonstration and assessment of prior consideration of the CDM” do not apply to PoAs, as it is expected that no component of the programme will commence prior to the start date of validation. [EB60 Rep Anx26]
8-2. Crediting period

- CERs shall only be issued for a crediting period starting after the date of registration of a CDM project activity. [CP/2001/13/Ad2, p23 para12]
- PPs select a crediting period for a proposed project activity from one of the following alternative approaches [CMP/2005/8/Ad1, p17 para49]:
  - A maximum of 7 years which may be renewed at most 2 times.
    - For each renewal, a DOE determines and informs the EB that the original project baseline is still valid or has been updated taking account of new data where applicable.
  - A maximum of 10 years with no option of renewal.
- GHG emission reductions since 2000 may be eligible to claim CERs. [CP/2001/13/Ad2, p23 para13]

To demonstrate the validity of the original baseline or its update, project participants are not required to re-assess the baseline scenario. Instead, project participants shall assess the GHG emission reductions that would have resulted from that scenario. [PS ver3. para228] (Chap.18)

**Indicating the start date of the crediting period** [PS ver3. para60-62]
PPs shall state the start date of the crediting period in the format dd/mm/yyyy, and shall not use any qualifications to the start date, such as “expected”. PPs shall determine only one start date for the crediting period, even in cases of phased implementation of the proposed CDM project activity.

The start date of a CDM project activity (chap.8-1) does not need to correspond to the starting date of the crediting period for this project activity. Therefore project activities starting as of 1 January 2000 may be validated and registered. [EB21 Rep. para63]

The start date of the crediting period provided in the CDM-PDD by the project participants is an indicative date and if it is prior to the date of registration of the project activity, it will be updated by the secretariat as the effective date of registration in accordance with the Project cycle procedure. [PS ver3. p15]
9. Monitoring plan

- Monitoring refers to collecting and archiving all relevant data necessary for determining the baseline, measuring anthropogenic emissions by sources of GHGs within the project boundary, and leakage, as applicable. [Glos ver.7 p14]
- A monitoring methodology refers to the methodology used for monitoring a CDM project or CPA, which constitutes one part of a baseline and monitoring methodology. [Glos ver.7 p14]
- A monitoring plan for a proposed project activity shall be based on a previously approved monitoring methodology or a new methodology. [CMP/2005/8/Ad1, p17 para54]
- Revisions, if any, to the monitoring plan to improve its accuracy and/or completeness of information shall be justified by PPs and shall be submitted for validation to a DOE. [CMP/2005/8/Ad1, p18 para57]

Project Boundary

- The project boundary shall encompass all anthropogenic GHG emissions by sources under the control of the PPs that are significant and reasonably attributable to the CDM project activity. [CMP/2005/8/Ad1, p17 para52]

Leakage

- For a CDM project activities or PoA, the net change of anthropogenic emissions by sources of greenhouse gases (GHG) which occurs outside the project boundary, and which is measurable and attributable to the CDM project activity or PoA. [Glos ver.7 p13]
- For and A/R or SSC A/R CDM project activity or PoA(A/R), the increase in GHG emissions by sources or decrease in carbon stock in carbon pools which occurs outside the boundary of an A/R or SSC A/R CDM project activity or PoA (A/R), as applicable, which is measurable and attributable to the A/R or SSC A/R CDM project activity or PoA (A/R) [Glos ver.7 p13]
- Reductions in GHG emissions shall be adjusted for leakage in accordance with the monitoring and verification provisions. [CMP/2005/8/Ad1, p17 para50]

BOX: Calibration

- The specific uncertainty levels, methods and associated accuracy level of measurement instruments and calibration procedures to be used for various parameters and variables should be identified in the PDD, along with detailed quality assurance and quality control procedures. In addition standards recommended shall either be national or international standards. The verification of the authenticity of the uncertainty levels and instruments are to be undertaken by the DOE during the verification stage. [EB23 Rep, para24]
- A zero check cannot be considered as a substitute for calibration of the measurement instrument. [EB24 Rep, para37]

BOX: The standardized format for monitoring report [EB54 Anx34]

- There is guidelines for completing the monitoring report form (F-CDM-MR) and the standardized format for monitoring report to improve consistency in reporting of the implementation and monitoring of the project activity by PPs. [EB54 Rep, para71]

10. Approval from each Party involved

Approval /authorization by Parties involved [Glos ver.7, p6-7]

- The written authorization of an entity(ies) participation in a CDM project activity or PoA and written approval of voluntary participation from the DNA of each Party involved and including, from the host Party only, confirmation that the CDM project activity or PoA assists it in achieving sustainable development.

Party involved [Glos ver.7, p15]

- A Party that has ratified the Kyoto Protocol and that provides written approval in accordance with the CDM rules and requirements

Project activities from multilateral funds involving many host Parties do not necessarily require letters of approval from the DNA of each Party. However, those not providing a letter may be giving up some of their rights and privileges in terms of being a Party involved in the proposed project activity. [PS ver.3, p16]

BOX: Contents of actual approval letters

- An approval letter is addressed and sent to PPs.
- In most cases, an approval letter is the same with an authorization letter. (chap.4-6)
  ⇒ In some cases, a DNA authorizes an entity in another country.
- In some cases, a DNA sets conditions on issues other than unconditional issues.
  ⇒ For example, conditions on amount of CERs to be transferred, validity of the approval, the rejection of an unilateral CDM project, the requirement of reports to a DNA, etc.
- In some cases, an official approval letter is written in the original language and validated with a seal, while an unofficial English translation is attached.
11. Deviation request

11-1. Submission of request for deviation

- If the DOE finds that the PPs or the CME deviated from an approved baseline and monitoring methodology when applying it to the proposed project activity or PoA, and the DOE considers that the deviation was due to a project- or programme-specific issue implying that a revision of the methodology would not be required to address the issue, it may seek guidance from the EB on the acceptability of the deviation prior to submission of a request for registration or publication of the PDD or PoA-DD of the proposed CDM project activity or PoA.

- To seek guidance from the EB on the acceptability of the deviation, the DOE shall submit the “Deviation from approved methodology request form” (F-CDM-DEV) through a dedicated interface on the UNFCCC CDM website. In the submission the DOE shall provide:
  
  (a) Clear and precise assessment of the case including demonstration that the deviation does not imply revision of an approved methodology;
  
  (b) A description of the impact of the deviation on the GHG emission reductions or removal enhancements from the project activity or PoA for the EB to evaluate.

11-2. Processing request for deviation

(1) Scheduling

The secretariat shall maintain a publicly available list of all submitted requests for deviation on the UNFCCC CDM website, excluding supporting documentation provided by the DOE as confidential. The secretariat shall make publicly available the schedule of processing the requests for deviation, including the expected date of commencement. The secretariat shall schedule the commencement of the processing of the requests in accordance with the secretariat’s operational plans, which shall also incorporate any relevant instructions from the EB.

(2) Completeness check

Upon commencement of the processing of the request for deviation, the secretariat shall conduct within 7 days the completeness check to determine whether the request submission is complete. Upon completion of the completeness check, the secretariat shall notify the DOE of the conclusion of the completeness check. If the request submission is found incomplete, the secretariat shall also communicate the underlying reasons to the DOE and make them publicly available on the UNFCCC CDM website. Upon submission of the revised documentation the request shall be treated as a new submission of a request for deviation. Upon determination by the secretariat that the request submission is complete, the secretariat shall, within 14 days, prepare and send to the EB a summary note on the request including a recommendation on the course of action, or with a notification that the case will be placed on the agenda of the next EB meeting.

(3) Consideration by the EB

If no member of the EB objects to the secretariat’s recommendation on the course of action within 20 days of receipt of the summary note, the recommended course of action shall be deemed to be the decision adopted by the EB. An objection by a member of the EB shall be made by notifying the Chair of the EB through the secretariat, giving reasons in writing. The secretariat shall acknowledge receipt of the objection and make it available to the EB. If a member of the EB objects to the secretariat’s recommendation on the course of action more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting; otherwise the subsequent EB meeting.

The course of action shall be:

(a) Approve the deviation and allow submission of a request for registration with the deviation; or

(b) Decide that the deviation requires a revision of an approved baseline and monitoring methodology before submitting a request for registration.

Once a decision has been made by the EB, the secretariat shall inform the DOE of the decision and any guidance provided by the EB as applicable, and make the decision and guidance publicly available on the UNFCCC CDM website.
12. Validation

12-1. Procedures for validation

Project participants (PPs)/Coordinating/managing entity (CME)

1. Select a DOE for validation from a list of DOEs and contract with them. [CMP/2005/8/Ad1, p14 para37]

2. Submit a PDD or a PoA-DD and the PoA specific CPA-DD together with supporting documentation to the DOE. A DOE may recommence the validation activity through a new or revised contract with a different set of PPs.

Designated operational entity (DOE)

3. Review the PDD to confirm that the requirements for the CDM have been met. [CMP/2005/8/Ad1, p14 para37]

4. Make the PDD or PoA-DD publicly available through a dedicated interface on the UNFCCC CDM website for global stakeholder consultation. Submit the following information to be made publicly available:
   a. The name of the proposed CDM project activity
   b. The host Party(ies) of the proposed CDM project activity or PoA
   c. The names of the PPs listed in the PDD or PoA-DD and the name of CME in the case of PoA with which the DOE has a contractual relationship
   d. The estimated annual GHG emission reductions or removal enhancements, (In the case of PoA, the estimated total volume of them of all CPAs)
   e. The approved baseline and monitoring methodology(ies)
   f. Reference to any previous publication of the PDD or PoA-DD for public comments on the UNFCCC CDM website;
   g. The proposed start date and length of the first crediting period
   h. In the case of a PoA,
      i. The generic CPA-DDs
      ii. at least one specific case CPA-DD corresponding to any of the generic CPA-DDs

5. In case the DOE is accredited for all sectoral scope(s), the secretariat, through the CDM information system, shall make the PDD or PoA-DD policy available on the UNFCCC website.

6. Parties, stakeholders and UNFCCC accredited observers may submit comments on the validation requirements for the proposed CDM project activity or PoA to the DOE through the secretariat via a dedicated interface on the UNFCCC CDM website.

7. Check the authenticity of this information in case of doubt.

8. Make a determination whether the project activity should be validated. [CMP/2005/8/Ad1, p15 para40(d)]

   No
   ↓

   Inform PPs of reasons for non-acceptance [CMP/2005/8/Ad1, p15 para40(e)]

   Yes
   ↓

   Registration Procedure

UNFCCC secretariat

5. In case the DOE is accredited for all sectoral scope(s), the secretariat, through the CDM information system, shall make the PDD or PoA-DD policy available on the UNFCCC website.

6. Parties, stakeholders and UNFCCC accredited observers may submit comments on the validation requirements for the proposed CDM project activity or PoA to the DOE through the secretariat via a dedicated interface on the UNFCCC CDM website.

8. Make the comments publicly available on the UNFCCC CDM website where the PDD or PoA-DD is displayed, and shall remove those that the DOE has determined to be unauthentic

At 180 days subsequent to the end of the period for submission of comments on the PDD or PoA-DD, the DOE shall provide an update of the status of its validation activity, unless the project activity has been submitted for registration.
12-2. Validation requirements

General reporting requirements:
☞ The DOE shall report the results of its assessment in a validation report.
☞ The validation report shall include a positive validation opinion only if the proposed project activity complies with the applicable CDM requirements.
☞ The DOE shall submit this validation report, along with the supporting documents, to the EB as part of the request for registration of a project activity as a proposed project activity.
☞ If the validation report includes a negative validation opinion, the DOE shall provide the project participants with the report and inform the EB of the outcome.

Approval: The DOE shall determine whether the DNA of each Party indicated as being involved in the proposed CDM project activity in the PDD has provided a written letter of approval.

Authorization: The DOE shall determine whether each project participant has been authorized by at least one Party involved in a letter of approval.

Contribution to sustainable development: The DOE shall confirm that the DNA has considered whether the proposed CDM project activity assists the host Party in achieving sustainable development.

Modalities of communications: The DOE shall validate the corporate identity of all project participants and focal points included in the Modalities of Communication (MoC) statement, as well as the personal identities, including specimen signatures and employment status, of their authorized signatories. The DOE shall validate that the MoC statement has been correctly completed and duly authorized.

PDD: The DOE shall determine whether the PDD was completed using the latest version of the PDD form appropriate to the type of project activity.

Description of project activity: The DOE shall determine whether the description of the proposed project activity in the PDD is accurate, complete, and provides an understanding of the proposed CDM project activity.

Application of the selected baseline and monitoring methodology:
☞ The DOE shall determine whether the baseline and monitoring methodologies selected by the project participants are the valid versions of those approved by the EB.
☞ The DOE shall apply specific guidance and/or clarifications provided by the EB with respect to the approved methodology and any applicable tools. The DOE shall determine whether the selected methodology applies to the project activity and was correctly applied with respect to the following:
  (a) Project boundary;
  (b) Baseline identification;
  (c) Algorithms and/or formulae used to determine emission reductions;
  (d) Additionality;
    ✓ Assessment of prior consideration of the clean development mechanism
    ✓ Identification of alternatives
    ✓ Investment analysis
    ✓ Investment analysis/ Barrier analysis
    ✓ Common practice analysis/ Monitoring plan
  (e) Monitoring methodology.

Environmental impacts: The DOE shall determine whether the project participants conducted an analysis of the environmental impacts of the proposed project activity, including transboundary impacts, and whether those impacts are considered significant by the project participants or the host Party.

Local stakeholder consultation: The DOE shall determine whether the project participants have completed a local stakeholder consultation process and that due steps were taken to engage stakeholders and solicit comments for the proposed project activity.
13. Registration

13-1. Procedures for requests for registration

**DOE (and PPs)**

1. The DOE, after determining that a proposed CDM project activity or PoA meets all relevant requirements in the “CDM-PS” by following the relevant provisions of the VVS and other CDM requirements, shall submit, through a dedicated interface on the UNFCCC CDM website, a request for registration of the proposed CDM project activity or PoA by using the form of “F-CDM-REG” or “F-CDM-PoA-REG”, respectively, and all the required documents listed in the completeness checklist for requests for registration.

2. The secretariat shall issue a unique reference number for the submission of the request for registration and a statement of the registration fee due, or confirmation that no registration fee is due, determined in accordance with the provisions on the registration fee, and shall communicate these to the DOE.

3. The DOE communicates to the PPs or CME the unique reference number, and registration fee due or confirmation that no registration fee is due.

4. The PPs or the CME shall pay registration fee by bank transfer, quoting the unique reference number. The DOE shall submit proof of payment through a dedicated interface on the UNFCCC CDM website. If the proposed project activity or PoA applies a methodology that has been revised, withdrawn, or suspended by the EB, either proof of payment must be uploaded within 20 days or payment must be received within 40 days of the end of the grace period for revision or the date of withdrawal or suspension.

5. The secretariat maintains a publicly available list of all submitted requests for registration for which the applicable registration fee has been received. The secretariat shall make publicly available the schedule of processing the requests for registration, including the expected date of commencement. The secretariat shall schedule the commencement of the processing of the requests for registration in accordance with the secretariat’s operational plans, which shall also incorporate any relevant instructions from the EB.

6. The secretariat shall conduct within seven 7 days a completeness check to determine whether the request for registration submission is complete in accordance with the completeness checklist for requests for registration.

7. Upon conclusion of the completeness check stage, the secretariat will notify the PPs or CME, and the DOE, of the conclusion of the completeness check stage. If the request does not meet the requirements of the completeness check, the secretariat shall also communicate the underlying reasons to the PPs or the CME, and the DOE, and make the result publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission of a request for registration.

8. Upon conclusion of the completeness check stage, the secretariat shall, subject to the guidance of the EB, conduct within 23 days an information and reporting check in accordance with the information and reporting checklist for requests for registration.

9. Upon conclusion of the information and reporting check, the secretariat shall notify the PPs or the CME, and the DOE, of the conclusion of the information and reporting check. If the request does not meet the requirements, the secretariat shall conclude that the request submission is incomplete and communicate the underlying reasons to the the PPs or the CME, and the DOE, and make them publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission of a request for registration.

10. Upon positive conclusion of the information and reporting check, the secretariat shall publish the request for registration on the UNFCCC CDM website, and the request for registration shall be deemed received by the EB for consideration.

11. The secretariat will notify the PPs or the CME, the DNA(ies) of the Party(ies) involved, and the DOE: that the EB has received the request for registration for consideration of registration; that the secretariat has published the request for registration on the UNFCCC CDM website; and the last day by which members of the EB or a Party involved may request a review of the request for registration.

12. The secretariat shall prepare and send to the EB a summary note on the request for registration, within 14 days of date of publication of the request for registration.

13. The EB shall register the proposed project activity or PoA.

**UNFCCC secretariat (and the EB)**

(1) The DOE, after determining that a proposed CDM project activity or PoA meets all relevant requirements in the “CDM-PS” by following the relevant provisions of the VVS and other CDM requirements, shall submit, through a dedicated interface on the UNFCCC CDM website, a request for registration of the proposed CDM project activity or PoA by using the form of “F-CDM-REG” or “F-CDM-PoA-REG”, respectively, and all the required documents listed in the completeness checklist for requests for registration.

(2) The secretariat shall issue a unique reference number for the submission of the request for registration and a statement of the registration fee due, or confirmation that no registration fee is due, determined in accordance with the provisions on the registration fee, and shall communicate these to the DOE.

(3) The DOE communicates to the PPs or CME the unique reference number, and registration fee due or confirmation that no registration fee is due.

(4) The PPs or the CME shall pay registration fee by bank transfer, quoting the unique reference number. The DOE shall submit proof of payment through a dedicated interface on the UNFCCC CDM website. If the proposed project activity or PoA applies a methodology that has been revised, withdrawn, or suspended by the EB, either proof of payment must be uploaded within 20 days or payment must be received within 40 days of the end of the grace period for revision or the date of withdrawal or suspension.

(5) The secretariat maintains a publicly available list of all submitted requests for registration for which the applicable registration fee has been received. The secretariat shall make publicly available the schedule of processing the requests for registration, including the expected date of commencement. The secretariat shall schedule the commencement of the processing of the requests for registration in accordance with the secretariat’s operational plans, which shall also incorporate any relevant instructions from the EB.

(6) The secretariat shall conduct within seven 7 days a completeness check to determine whether the request for registration submission is complete in accordance with the completeness checklist for requests for registration.

(7) Upon conclusion of the completeness check stage, the secretariat will notify the PPs or CME, and the DOE, of the conclusion of the completeness check stage. If the request does not meet the requirements of the completeness check, the secretariat shall also communicate the underlying reasons to the PPs or the CME, and the DOE, and make the result publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission of a request for registration.

(8) Upon conclusion of the completeness check stage, the secretariat shall, subject to the guidance of the EB, conduct within 23 days an information and reporting check in accordance with the information and reporting checklist for requests for registration.

(9) Upon conclusion of the information and reporting check, the secretariat shall notify the PPs or the CME, and the DOE, of the conclusion of the information and reporting check. If the request does not meet the requirements, the secretariat shall conclude that the request submission is incomplete and communicate the underlying reasons to the the PPs or the CME, and the DOE, and make them publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission of a request for registration.

(10) Upon positive conclusion of the information and reporting check, the secretariat shall publish the request for registration on the UNFCCC CDM website, and the request for registration shall be deemed received by the EB for consideration.

(11) The secretariat will notify the PPs or the CME, the DNA(ies) of the Party(ies) involved, and the DOE: that the EB has received the request for registration for consideration of registration; that the secretariat has published the request for registration on the UNFCCC CDM website; and the last day by which members of the EB or a Party involved may request a review of the request for registration.

(12) The secretariat shall prepare and send to the EB a summary note on the request for registration, within 14 days of date of publication of the request for registration.

(13) The EB shall register the proposed project activity or PoA.

**Decision:** Whether a Party involved in a proposed CDM project activity or PoA or at least 3 EB members request a review of the request for registration before 5 p.m. GMT of the last day of the 28 day period following the publication of the request for registration.

- Yes (chap. 13-2)
- No

(12) The secretariat shall prepare and send to the EB a summary note on the request for registration, within 14 days of date of publication of the request for registration.
13. Registration

13-2. Procedures for review of requests for registration

(1) Commencement of Review
☞ If a Party involved in a proposed CDM project activity or at least 3 EB members request a review of the request for registration, the secretariat shall:
⇒ Notify the PPs or CME, and the DOE, that validated the proposed project activity or PoA;
⇒ Make the request for registration as “under review” on the UNFCCC CDM website and publicly available an anonymous version of each request for review form;
⇒ Establish a team comprising two experts selected from the RIT Team to conduct an assessment of the request for review. The secretariat shall appoint one of the RIT Team members to serve as the lead, who shall be responsible for all communications with the secretariat.
☞ The PPs or the CME and the DOE shall provide responses to the issues identified in the request for review no later than 28 calendar days after the notification. For each issue raised in the request for review, the PPs and DOE shall either:
⇒ Respond by making any revisions to the PDD or PoA-DD and/or validation report (VR); or
⇒ Respond in writing by addressing why no revisions to the PDD and/or VR are necessary.
The secretariat shall schedule the commencement of the review of the request for registration, and make the schedule of review publicly available. Upon scheduling the commencement date, or altering it as applicable, the secretariat shall inform the PPs or the CME and DOE of this date. The commencement of the review shall be defined as the date on which the secretariat notifies the PPs and the DOE of the scheduled or altered commencement date, respectively.

(2) Assessment
☞ Concurrently and independently from the secretariat’s assessment, conduct an assessment of the request for registration in the context of the reasons for the request for review and the CDM requirements, taking into account the responses of the PPs or the CME and the DOE. The secretariat and the RIT Team shall finalize their assessments no later than 14 days after the commencement of the review.
☞ Each assessment shall include a proposed decision. Each proposed decision shall suggest either: (a) register the proposed project activity or PoA; or (b) reject the request for registration. If a proposed decision is to reject the request for registration, then the assessment shall include a proposed ruling, containing an explanation of the reasons and rationale.
☞ In addition both the secretariat and the RIT Team shall, in their assessment reports, highlight any issues of significant importance related to the policies and goals of the CDM arising from the assessment. The secretariat, in consultation with the Chair of the EB, shall bring these issues to the attention of the EB by preparing background notes and policy options and presenting them to the EB at its meetings.
☞ The RIT Team shall submit its assessment report to the EB through the secretariat. The secretariat shall inform the EB of the availability of each assessment report, and make each assessment report available to the EB, together with any responses from the PPs or the CME, and the DOE and any revision to the PDD and/or VR and other relevant

(3) Consideration by the EB
☞ If the respective assessment of the secretariat and the RIT Team contain the same proposed decision, then that shall become the final decision of the EB after 20 days, unless a member of the EB objects to the proposed decision. An objection by a member of the EB shall be made by notifying the Chair of the EB, giving reasons in writing. The secretariat shall make it available to the EB.
⇒ If an EB member objects to the proposed decision more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting (otherwise the subsequent EB meeting).
⇒ If the assessments of the secretariat and the RIT Team contain different proposed decisions and the EB receives both proposed rulings more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB (otherwise the subsequent EB meeting).
⇒ At the EB meeting for which the case is placed on the agenda, the EB shall decide to either: register the proposed CDM project activity or PoA; or reject the request for registration.

(4) Finalization and implementation of the ruling
☞ If a final decision approves the registration of the proposed CDM project activity or PoA, the secretariat shall register them on the first working day subsequent to the finalization of the decision. The effective date of registration shall be day on which the latest revisions to the validation report and/or supporting documentation were submitted.
⇒ If the EB’s final decision is to reject the request for registration, the secretariat shall update the information on the UNFCCC CDM website on the first working day subsequent to the finalization of the decision. Furthermore, within 21 days of the finalization of the decision, the secretariat will provide the Chair of the EB with an information note containing a proposed final ruling incorporating the final decision. The proposed ruling shall contain an explanation of the reasons and rationale for the final decision.
⇒ Once approved by the Chair of the EB, the secretariat shall make the proposed final ruling available to the EB. The proposed ruling shall become the final ruling of the EB 10 days after the date when the proposed ruling was made available to the EB, unless a member of the EB objects to the proposed ruling.
⇒ An objection by a member of the EB shall be made by notifying the Chair of the EB, giving reasons in writing, through the secretariat. The secretariat shall make the objection available to the EB.
⇒ If an EB member objects to the proposed final ruling more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting (otherwise the subsequent EB meeting).
⇒ The secretariat shall make the final ruling publicly available on the UNFCCC CDM website.
13-3. Registration fee [PCP ver.3.2, App1], [EB74Anx11]

♦ The registration fee schedule applies to submissions of request for registration of proposed project activities under the CDM.

♦ The share of proceeds to cover administrative expenses (SOP-Admin) is:
  ☞ USD 0.10/CER issued for the first 15,000 t-CO₂ equivalent for which issuance is requested in a given year.
  ☞ USD 0.20/CER issued for any amount in excess of 15,000 t-CO₂ equivalent for which issuance is requested in a given year.
  ☞ No share of proceeds shall be due for project activities and PoAs hosted in LDCs. In the case of PoAs hosted not exclusively in LDC, the exemption from the share of proceeds applies to the issuance of CERs for the emission reductions occurring in CPAs hosted in least developed countries. The application of this exemption from the share of proceeds shall be based on the status of the country on the date of the publication of the request for issuance of CERs.

♦ The registration fee for a project activity shall be the share of the proceeds applied to the total expected average annual CERs of the specific actual case CPA(s) submitted together with the request for registration of the PoA. The average annual emission reductions for each specific case CPA are calculated over its crediting period. For each CPA which is included subsequently, no registration fee is to be paid. Fees are to be paid by the CME to the secretariat.

♦ The registration fee for a PoA shall be the share of proceeds applied to the expected average annual CERs of the “actual case” CPA submitted together with the request for registration of the PoA over its crediting period, as identified in the CPA-DD and as validated by the DOE. If more than one specific case CPA-DDs corresponding to different generic CPA-DDs in the PoA are submitted, the registration fee shall be based on the sum of expected average annual CERs of actual case CPAs.

♦ Upon re-submission of a request for registration directly following a determination by the secretariat that the submission is incomplete, no registration fee shall be payable unless the re-submission results in an increase in the expected average annual CERs for the proposed project activity, or for the “actual case” CPA submitted together with the request for registration of the PoA, over its crediting period. If the re-submission results in an increase in the expected average annual CERs, then the registration fee due shall be re-calculated upon re-submission. The registration fee due upon re-submission shall be the difference between the re-calculated registration fee and the registration fee previously paid.

♦ For the purpose of calculating the registration fee for proposed A/R project activities or A/R PoAs, CERs shall mean the net GHG removals by sinks.

♦ The maximum registration fee payable based on this calculation shall be USD 350,000.

♦ The registration fee shall be deducted from the SOP-Admin due for issuance of the CERs. In effect, the registration fee is an advance payment of the SOP-Admin due for the issuance of CERs likely to be achieved during the first year.

SOP-Admin is a fee that PPs have to pay at issuance of CERs. (chap.17)

BOX: Example of registration fee

<table>
<thead>
<tr>
<th>Expected average annual emission reduction</th>
<th>Registration fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 t</td>
<td>-</td>
</tr>
<tr>
<td>15,000 t</td>
<td>$ 1,500</td>
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<tr>
<td>30,000 t</td>
<td>$ 4,500</td>
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<tr>
<td>100,000 t</td>
<td>$ 18,500</td>
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<tr>
<td>1,000,000 t</td>
<td>$ 198,500</td>
</tr>
<tr>
<td>3,000,000 t</td>
<td>$ 350,000</td>
</tr>
</tbody>
</table>

No registration fee shall be payable:

☞ For proposed project activities or proposed PoAs with the “specific case” CPA submitted together with the request for registration of the PoA, with expected average annual CERs over its crediting period, below 15,000 t-CO₂ equivalent.

☞ For proposed project activities or proposed PoAs hosted in LDCs;
  ⇒ The application of this exemption is based on the status of the country on the date of the publication of the request for registration.

☞ Until after the date of the first issuance of CERs in countries with fewer than 10 registered CDM project activities.
  ⇒ The application of this exemption shall be based on the number of registered CDM projects in the country on the date of the submission of the request for registration.
13.4. Procedures for withdrawal of a request for registration

Submission of request for withdrawal
The DOE shall submit a request for withdrawal of a request for registration by using the “Registration request withdrawal form” (F-CDM-RW) and uploading it through a dedicated interface on the UNFCCC CDM website, for the following cases:
This procedure shall be applied if a DOE wishes to request the withdrawal of a request for registration after the concerned request for registration has been submitted by the DOE to the EB.
⇒ The PPs or CME voluntarily wishes to withdraw the proposed CDM project activity or PoA, of which the DOE is requesting registration;
⇒ The DOE has a revised its validation opinion based on new insights or information and has determined that the proposed project activity or PoA dose not meet all relevant requirements for a CDM project activity or PoA.

Processing request for withdrawal
☞ Upon receipt of the request for withdrawal, the secretariat shall as soon as possible check the documents submitted.
☞ The types of request for withdrawal of request for registration, and the procedures applicable to each type of withdrawal are as follows:

Type 1
☞ The DOE requests the withdrawal prior to the publication of the request for registration
⇒ The registration fee will be reimbursed in full to the PPs or CME. In this case, the project activity or PoA shall not be marked as “withdrawn”, but the unique reference number assigned to the withdrawn project activity or PoA shall be blocked from further use.

Type 2
☞ The DOE requests the withdrawal during the 28-day period for requesting a review of the request for registration
⇒ Any registration fee paid above USD 30,000 shall be reimbursed to the PPs or the CME, and the proposed CDM project activity or PoA shall be marked as “withdrawn” on the UNFCCC CDM website.

Type 3
☞ The DOE requests the withdrawal subsequent to being notified a request for review of the request for registration.
⇒ Any registration fee paid above USD 30,000 shall be reimbursed to the project participants or the CME, and the proposed CDM project activity or PoA shall be marked as “withdrawn” on the UNFCCC CDM website.

☞ Submission of requests for withdrawal will be incorporated into the framework for addressing noncompliance by DOEs.
14. Changes to registered CDM project activity or PoA

14-1. Submission for request for approval of changes

♦ A request for approval of changes may be submitted in respect of the following changes that have occurred or are expected to occur to a registered CDM project activity or PoA:
   (a) Temporary deviation from the monitoring plan as described in the registered PDD or the monitoring methodology;
   (b) Permanent changes:
      (i) Corrections;
      (ii) Changes to the start date of the crediting period of the project activity or CPA;
      (iii) Permanent changes to the monitoring plan as described in the registered PDD or the monitoring methodology; including changes to apply the provisions of the most recent version of the “Standard for sampling and surveys for CDM project activities and programme of activities”;
      (iv) Changes to the project or programme design in the registered CDM project activity or PoA.
   (v) Changes to the project design in the registered generic CPA or specific CPA.

♦ In the following circumstances, the DOE shall submit a request for approval by the EB prior to the submission of the request for issuance:
   (a) The DOE, when performing a verification for a registered CDM project activity or PoA, determines that one or more of the changes have occurred or are expected to occur to the project activity or PoA after its registration, and the changes require “prior approval” by the EB in accordance with the “Clean development mechanism project standard”;
   (b) The PPs or CME have requested a DOE at any time prior to the commencement of a verification, to conduct a validation of one or more of the changes that have occurred or are expected to occur to the project activity or PoA after its registration.

In the cases above, where more than one of the changes have occurred or are expected to occur to the project activity or PoA after its registration, the DOE shall, wherever possible, combine such changes into one request for approval.

♦ In all other cases, the DOE that performs a verification of a registered CDM project activity or PoA shall submit the changes for acceptance by the EB as part of the request for issuance.

♦ For the change of (b) (ii), the request for approval of change may be made only once for each registered CDM project activity or CPA.

♦ To obtain approval from the EB for the changes, the DOE shall submit a request for approval of changes to the secretariat through a dedicated interface on the UNFCCC CDM website.

♦ The request for approval of changes shall contain:
   (a) A duly completed “Post-registration changes request form” (F-CDM-PRC);
   (b) An assessment opinion on the changes by the DOE prepared in accordance with the “Clean development mechanism validation and verification standard”;
   (c) A revised PDD, or revised PoA-DD and revised generic CPA-DD and specific CPA-DD, as applicable;
   (d) Letters of approval by the DNAs of the additionally included host Parties in the CDM PoA, as applicable;
   (e) Supplemental documentation, as appropriate.

♦ For CDM PoAs only the following changes shall be allowed:
   (a) Changes to programme boundary to expand geographical coverage or to include additional host Parties;
   (b) Updates to the eligibility criteria under the circumstances indicated in the “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities”
   (c) If a PoA includes more than one generic CPA-DD, addition of specific case CPA-DDs corresponding to generic CPA-DDs for which a specific case CPA-DD has not been submitted at the time of request for registration of the PoA;
   (d) Removal of methodologies from the registered PoA.

♦ The CME shall update the eligibility criteria for inclusion of CPAs in the PoA to reflect the change, and include them in new versions of PoA-DD and generic CPA-DD, to be validated by the DOE and approved by the EB.

[PCP ver.3.2, para130-139], [EB74Anx11]
14-2. Processing request for approval of changes

(1) Scheduling
☞ The secretariat shall maintain a publicly available list of all submitted requests for approval of changes on the UNFCCC CDM website. The secretariat shall make publicly available the schedule of processing the requests for approval of changes, including the expected date of commencement. The secretariat shall schedule the commencement of the processing of the requests for approval of changes in accordance with the secretariat’s operational plans, which shall also incorporate any relevant instructions from the EB.

(2) Completeness check
☞ Upon commencement of the processing of the request for approval of changes, the secretariat shall conduct within 7 days the completeness check to determine whether the request submission is complete.
☞ Upon conclusion of the completeness check, the secretariat shall notify the PPs or the CME and the DOE, of the conclusion of the completeness check. If the request submission is found incomplete, the secretariat shall also communicate the underlying reasons to the PPs or the CME, and the DOE, and make them publicly available on the UNFCCC CDM website. Upon submission of the revised documentation the request shall be treated as a new submission of a request for approval of changes.
☞ Upon determination by the secretariat that the request submission is complete, the secretariat shall, within 14 days, prepare and send to the EB a summary note on the request including a recommendation on the course of action, or with a notification that the case will be placed on the agenda of the next EB meeting.
☞ If the secretariat, during the preparation of the summary note, identifies issues that require inputs from a relevant panel or working group, it shall place the case on the agenda of the next meeting of the panel or working group. The secretariat shall finalize the summary note and send it to the EB within 14 days of receipt of the inputs from the panel or working group.

(3) Consideration by the EB
☞ If no member of the EB objects to the secretariat’s recommendation on the course of action within 20 days of receipt of the summary note, the recommended course action shall be deemed to be the decision adopted by the EB.
☞ An objection by a member of the EB shall be made by notifying the Chair of the EB through the secretariat, giving reasons in writing. The secretariat shall acknowledge receipt of the objection and make it available to the EB.
☞ If a member of the EB objects to the secretariat’s recommendation on the course of action more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting; otherwise the subsequent EB meeting.
☞ The course of action for (b)(iv) shall be:
(a) Approve the changes and allow subsequent requests for issuance for the project activity or PoA;
(b) Approve the changes and allow subsequent requests for issuance for the project activity or PoA, but, for the case of a project activity, limit the CERs up to the level estimated in the originally registered PDD;
(c) Reject the proposed changes but allow subsequent requests for issuance for the project activity or PoA.
☞ The course of action for (a) and (B)(i)-(iii) shall be:
(a) Approve the changes;
(b) Reject the changes.
☞ Once a decision has been made by the EB, the secretariat shall inform the DOE of the decision and any guidance provided by the EB as applicable, and make the decision and guidance publicly available on the UNFCCC CDM website.
☞ The secretariat shall make the revised PDD, or revised PoA-DD and revised generic CPA-DD, and the validation or assessment opinion by the DOE, as applicable, publicly available on the UNFCCC CDM website. This version of the PDD, or PoA-DD and generic CPA-DD, shall be applied for future requests for issuance or for inclusion of new CPAs in the PoA.
☞ The CPAs that were included before the change to the programme boundary shall apply the latest version of the generic CPA-DD only at the time of the renewal of its crediting period.
15. Verification and certification

♦ Verification is the periodic independent review and ex post determination by the DOE of the monitored reductions in GHG emissions that have occurred as a result of a registered CDM project activity during the verification period.

♦ Certification is the written assurance by the DOE that, during a specified time period, a project activity achieved the GHG emission reductions as verified.

[CMP/2005/8/Ad1, p18 para61]

☞ Timing and frequency of verification and certification are not specified in the official documents.

15-1. Publication of monitoring report

Publication of monitoring report

(1) The PPs of a registered CDM project activity or the CME of a registered CDM PoA shall prepare (a) monitoring report(s) in accordance with the PS, and submit it/them together with supporting documentation to the DOE contracted by the PPs or the CME to perform verification of the monitored GHG emission reductions or removal enhancements.

Reporting of status of registered project activity or programme

♦ At 2 years subsequent to the registration of a CDM project activity or PoA, the PPs or CME shall provide, through a dedicated interface on the UNFCCC CDM website, an update of the status of its implementation of the project activity or PoA, unless a DOE contracted by the PPs or CME to perform a verification has made a monitoring report for the project activity or PoA publicly available. The PPs or CME shall include one of the following statuses in the update:

(a) The project activity or PoA is under implementation, but has not reached the stage of monitoring of GHG emission reductions or removal enhancements. In this case the PPs or CME shall also provide an update of the status at 180-day intervals thereafter;
(b) The project activity or PoA has not yet been implemented, but is still planned to be implemented. In this case the PPs or CME shall also provide an update of the status at 180-day intervals thereafter;
(c) The project activity or PoA has been implemented, but the PPs or CME have not yet decided to proceed with the request for issuance stage;
(d) The implementation of the project activity or PoA has been cancelled;
(e) Any other reason for not having submitted a monitoring report for the project activity or PoA.

♦ At 180 days subsequent to the publication of the monitoring report, the DOE shall provide, through a dedicated interface on the UNFCCC CDM website, an update of the status of its verification activity, unless it has submitted a request for issuance of CERs for the registered CDM project activity or PoA. The DOE shall include one of the following statuses in the update:

(a) The verification contract has been terminated. In this case the DOE shall also provide a reason for the termination to the EB through the secretariat on a confidential basis;
(b) The DOE has issued a negative verification opinion;
(c) The DOE has raised one or more corrective action requests or clarification requests, for which no response has been received from the PPs or CME. In this case the DOE shall also provide a summary of the issues raised and update or reconfirm the status of the verification activities at 90-day intervals thereafter;
(d) The DOE is performing verification activities and it has not yet sent any corrective action or clarification requests to the PPs or CME. In this case the DOE shall also provide an explanation on the length of time taken and update or reconfirm the status of the verification activities at 90-day intervals thereafter.

[PCP ver.3.2, para176-182]
15-2. Verification requirements

**General verification approach**
☞ In carrying out its verification work, the DOE shall determine whether the project activity complies with the requirements of paragraph 62 of the CDM modalities and procedures.
☞ The DOE shall ensure that only verification activities undertaken after the publication of the monitoring report on the UNFCCC CDM website shall be used as a basis for the DOE to conclude their verification and submit a request for issuance of CERs to the Board.
☞ The DOE shall make publicly available the monitoring report received from the project participants in accordance with the PCP. Unless the Board has agreed to grant an exception, a DOE shall not perform verification functions on a project activity for which it has performed the function of validation/registration.
☞ The DOE shall assess both quantitative and qualitative information on emission reductions provided in the project documentation.
☞ The DOE shall assess and determine whether the implementation and operation of the project activity, and the steps taken to report emission reductions comply with the CDM criteria and relevant guidance provided by the Board. This assessment shall involve a review of relevant documentation as well as an on-site visit(s).
☞ The DOE shall assess whether the data collection system meets the requirements of the monitoring plan as per the applied methodology including applicable tool(s).
☞ In addition to the monitoring documentation the DOE shall review:
  (a) The registered PDD and the monitoring plan, including any approved revised monitoring plan and/or changes from the registered PDD, and the corresponding validation opinion; (b) The validation report;
  (c) Previous verification reports, if any; (d) The applied monitoring methodology; (e) The monitoring report to verify that it is as per the standardized format;(f)Any other information and references relevant to the project activity's emission reductions

**Verification Requirements**
♦ **Compliance of the project implementation with the registered project design document:** The DOE shall identify any concerns related to the conformity of the actual project activity and its operation with the registered project design document and determine whether:
  (a) The implementation and operation of the project activity has been conducted in accordance with the description contained in the registered PDD; or
  (b) Any deviation or the proposed or actual changes in the implementation or operation of the project activity comply with the requirements of the PS.
♦ **Compliance of the monitoring plan with the monitoring methodology including applicable tool(s):** The DOE shall determine whether the monitoring plan of the project activity is in accordance with the applied methodology including applicable tool(s).
♦ **Compliance of monitoring activities with the registered monitoring plan:** The DOE shall determine whether the monitoring of parameters related to the GHG emissions reductions in the project activity has been implemented in accordance with the monitoring plan contained in the registered PDD or any accepted revised monitoring plan.
♦ **Compliance with the calibration frequency requirements for measuring instruments:** The DOE shall determine whether the calibration of those measuring equipments that have an impact on the claimed emission reductions is conducted by the project participants at a frequency specified in the applied monitoring methodology and/or the monitoring plan.
♦ **Assessment of data and calculation of emission reductions:** The DOE shall assess the data and calculations of GHG emission reductions achieved by/resulting from the project activity by the application of the selected approved methodology.
♦ **Assessment Temporary deviations from the registered monitoring plan and/or monitoring methodology:** The DOE shall determine whether there are deviations from the registered monitoring plan and/or methodology.
♦ **Corrections:** The DOE shall verify that any corrections to project information or parameters fixed at validation, as described in the registered PDD, made by project participants in a revised PDD comply with the requirements of the Project standard.
♦ **Changes to the start date of the crediting period:** If the project participants wish to change the start date of the crediting period in accordance with section 12.8 of the Project standard, the DOE shall determine whether the proposed changes result in a less conservative baseline.
♦ **Changes to the project design of a registered project activity:** The DOE shall determine whether there are proposed or actual changes to the project design of a registered CDM project activity.
16. Issuance of CERs

16-1. Procedures for requests for issuance of CERs

**DOE (and PPs/CME)**

1. The DOE shall submit a request for issuance of CERs by using the “CDM project activity issuance request form” (F-CDM-ISS) or “CDM programme of activities issuance request form” (F-CDM-PoA-ISS), as applicable, only after it verifies that the monitored GHG emission reductions or removal enhancements meet the relevant requirements in the PS and certifies the quantity of CERs claimed in the monitoring report, by following the relevant provisions of the VVS and other CDM requirements. The DOE shall submit the required documents listed in the completeness checklist for requests for issuance. The DOE shall submit the required documents through a dedicated interface on the UNFCCC CDM website.

2. The secretariat shall make publicly available the schedule of processing the requests for issuance, including the expected date of commencement. The secretariat shall schedule the commencement of the processing of the requests for issuance in accordance with the secretariat’s operational plans which shall also incorporate any relevant instructions from the EB.

3. Upon commencement of the completeness check stage, the secretariat shall, subject to the guidance of the EB, conduct within 7 days a completeness check to determine whether the request for issuance submission is complete in accordance with the completeness checklist for requests for issuance.

4. Upon conclusion of the completeness check stage, the secretariat shall notify the PPs or CME, and the DOE, of the conclusion of the completeness check stage. If the request submission does not meet the requirements of the completeness check, the secretariat shall also communicate the underlying reasons to the PPs or CME, and the DOE, and make them publicly available. In this case, the DOE may resubmit the request for issuance with revised documentation. Upon submission of the revised documentation, the request shall be treated as a new submission.

5. Upon conclusion of the completeness check stage, the secretariat shall, subject to the guidance of the EB, conduct within 23 days an information and reporting check in accordance with the information and reporting checklist for requests for issuance.

6. Upon conclusion of the information and reporting check stage, the secretariat shall notify the PPs or CME, and the DOE, of the conclusion of the information and reporting check stage. If the request submission for which the secretariat conducted an information and reporting check does not meet the requirements of the information and reporting check, the secretariat shall conclude that the request submission is incomplete and communicate the underlying reasons to the PPs or CME, and the DOE, and make them publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission.

7. Upon positive conclusion of the information and reporting check stage, the secretariat shall publish the request for issuance on the UNFCCC CDM website, and the request for issuance shall be deemed received by the EB for consideration.

8. The secretariat shall notify the PPs or CME, the DNA(s) of the Party(ies) involved, and the DOE that: the EB has received the request for issuance for consideration of issuance; the secretariat has published the request for issuance on the UNFCCC CDM website; and the last day by which members of the EB or a Party involved may request a review of request for issuance.

9. The secretariat shall, subject to the guidance of the EB, prepare and send to the EB a summary note on the request for issuance within 14 days of the date of publication of the request for issuance.

10. The EB shall instruct the CDM registry administrator to issue a quantity of CERs claimed in the request for issuance into the pending account of the EB in the CDM registry. The secretariat shall inform the PPs or CME of the EB’s instruction to the CDM registry administrator and of any share of proceeds payable by the PPs or CME to cover administrative expenses of the CDM. The secretariat shall update the status of the request for issuance on the UNFCCC CDM website accordingly.

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**UNFCCC secretariat (and the EB)**

2. Following the guidance of the EB, the secretariat shall publish the request for issuance on the UNFCCC CDM website.

3. The secretariat shall notify the PPs or CME, and the DOE, of the conclusion of the completeness check stage. If the request submission does not meet the requirements of the completeness check, the secretariat shall also communicate the underlying reasons to the PPs or CME, and the DOE, and make them publicly available. In this case, the DOE may resubmit the request for issuance with revised documentation. Upon submission of the revised documentation, the request shall be treated as a new submission.

4. Upon conclusion of the completeness check stage, the secretariat shall notify the PPs or CME, and the DOE, of the conclusion of the completeness check stage. If the request submission does not meet the requirements of the completeness check, the secretariat shall also communicate the underlying reasons to the PPs or CME, and the DOE, and make them publicly available. In this case, the DOE may resubmit the request for issuance with revised documentation. Upon submission of the revised documentation, the request shall be treated as a new submission.

5. Upon positive conclusion of the information and reporting check stage, the secretariat shall publish the request for issuance on the UNFCCC CDM website, and the request for issuance shall be deemed received by the EB for consideration.

6. Upon conclusion of the information and reporting check stage, the secretariat shall notify the PPs or CME, and the DOE, of the conclusion of the information and reporting check stage. If the request submission for which the secretariat conducted an information and reporting check does not meet the requirements of the information and reporting check, the secretariat shall conclude that the request submission is incomplete and communicate the underlying reasons to the PPs or CME, and the DOE, and make them publicly available. Upon submission of the revised documentation, the request shall be treated as a new submission.

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**Decision Tree**

- Whether a Party involved in a CDM project activity or PoA at least 3 EB members request a review of the request within 28 days after the date of publication of the request for issuance for the project activity or 42 days of receipt of request for issuance for the PoA, respectively.

  - **Yes** (chap. 16-2)
  - **No**

**Notes**

- Whether a Party involved in a CDM project activity or PoA at least 3 EB members request a review of the request within 28 days after the date of publication of the request for issuance for the project activity or 42 days of receipt of request for issuance for the PoA, respectively.
16.2. Procedures for review of requests for issuance

(1) Commencement of Review
☞ If Party involved in a proposed CDM project activity or PoA, or at least 3 EB members request a review of the request for issuance, the secretariat shall:
☞ Notify the PPs or CME, and the DOE, that verified and certified the claimed CERs;
☞ Make the request for issuance as “under review” on the UNFCCC website and publicly available an anonymous version of each request for review form;
☞ Establish a team comprising two experts selected from the RIT Team to conduct an assessment of the request for review. The secretariat shall appoint one of the RIT Team members to serve as the lead, who shall be responsible for all communications with the secretariat.
☞ The PPs or the CME, and the DOE, shall provide responses to the issues identified in the request for review no later than 28 days after the notification. If no response is received within 28 days, the request for review shall be considered withdrawn.
☞ Respond by making any revisions to the monitoring report (MR) and attached spreadsheets, verification report (VR), and/or certification; or
☞ Respond in writing by addressing why no revisions to the MR, VR, and/or certification are necessary.
☞ The secretariat shall schedule the commencement of the review of the request for issuance, and make the schedule of review publicly available. Upon scheduling the commencement date, the secretariat shall inform the PPs and DOE of this date. The commencement of the review shall be defined as the date on which the secretariat notifies the PPs or the CME, and the DOE, that the review has commenced.

(2) Assessment
☞ The secretariat as well as the RIT team independent from the secretariat shall conduct an assessment of the request for issuance in the context of the reasons for the request for review and the CDM requirements, taking into account the responses of the PPs or the CME, and the DOE. The secretariat and the RIT Team shall finalize their respective assessments no later than 14 days after the commencement of the review.
☞ Each assessment shall include a proposed decision. Each proposed decision shall propose to either: (a) Issue the CER; or (b) Reject the request for issuance. If a proposed decision is to reject the request for issuance, then the assessment shall include a proposed ruling, containing an explanation of the reasons and rationale.
☞ In addition both the secretariat and the RIT Team shall highlight any policy issues of significant importance related to the policies and goals of the CDM. The secretariat, in consultation with the Chair of the EB, shall bring these issues to the attention of the EB by preparing background notes and policy options and presenting them to the EB at its meetings.
☞ The RIT Team shall submit its assessment report to the EB through the secretariat. The secretariat shall inform the EB of the availability of each assessment report, and make each assessment report available to the EB, together with any responses from the PPs or the CME, and the DOE, and any revision to the MR and/or VR.

(3) Consideration by the EB
☞ If the assessment of the secretariat and the RIT Team contain the same proposed decision, then that shall become the final decision of the EB 20 days after the date when the availability of the assessment report of the secretariat or the RIT Team, whichever the later, was communicated to the EB, unless a member of the EB objects to the proposed decision.
☞ An objection by a member of the EB shall be made by notifying the Chair of the EB, through the secretariat, giving reasons in writing. The secretariat shall acknowledge receipt of the objection and make it available to the EB. If a member of the EB objects to the proposed decision more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting; otherwise it shall be placed on the agenda of the subsequent EB meeting.
☞ If the assessments of the secretariat and the RIT Team contain different proposed decisions and the EB receives both proposed decisions more than 14 days prior to the next EB meeting, the matter will be placed on the agenda of the next EB (otherwise the subsequent EB meeting).
☞ At the EB meeting for which the matter is placed on the agenda, the EB shall decide to either: (a) Issue the CERs; or (b) Reject the request for issuance.

(4) Finalization and implementation of the ruling
☞ If the EB’s final decision is to issue the CERs, the EB shall instruct the CDM registry administrator to issue a specified quantity of CERs into the pending account of the EB of the CDM registry. The secretariat shall inform the PPs or the CME of the Board’s instruction to the CDM registry administrator and of any share of proceeds payable by the PPs or the CME to cover administrative expenses of the CDM. The secretariat shall update the status of the request for issuance on the UNFCCC CDM website accordingly.
☞ If the EB’s final decision is to reject the request, the secretariat shall update the information on the UNFCCC CDM website accordingly on the first working day subsequent to the finalization of the decision. Furthermore, within 21 days of the finalization of the decision, the secretariat will provide the Chair of the EB with an information note containing a proposed ruling incorporating the final decision.
☞ Once approved by the Chair of the EB, the secretariat shall immediately make the proposed ruling available to the EB. The proposed ruling shall become the final ruling of the EB after 10 days, unless a member of the EB objects to the proposed ruling.
☞ An objection by a member of the EB shall be made by notifying the Chair of the EB, giving reasons in writing, through the secretariat. The secretariat shall make the objection available to the EB.
☞ If an EB member objects to the proposed final ruling more than 14 days prior to the next EB meeting, the case shall be placed on the agenda of the next EB meeting (otherwise the subsequent EB meeting) and the EB finalize the ruling.
☞ The secretariat shall make the final ruling publicly available on the UNFCCC CDM website.
### 16-3. Procedures for withdrawal of a request for issuance of CERs

#### Submission of request for withdrawal
☞ For the following cases, the DOE shall submit a request for withdrawal of a request for issuance by using the “Issuance request withdrawal form” (F-CDM-IW) and uploading it through a dedicated interface on the UNFCCC CDM website:

⇒ The PP or the CME voluntarily wish to withdraw a request for issuance for the specified monitoring period;
⇒ The DOE has revised its verification report and/or certification report based on new insights or information.

#### Processing request for withdrawal
☞ Upon receipt of the request for withdrawal, the secretariat shall as soon as possible check the documents submitted.

**Type 1**
☞ If the DOE requests the withdrawal of the request for issuance prior to the publication of the request for issuance.
⇒ The request for issuance for the specified monitoring period will not be marked as “withdrawn”. If the DOE re-submits the request for issuance for the same monitoring period after such withdrawal, the request for issuance shall be treated as a new submission.

**Type 2**
☞ If the DOE requests the withdrawal of the request for issuance during the **28 day** period for requesting a review.
⇒ The request for issuance for the specified monitoring period will be marked as “withdrawn”. The DOE may re-submit the request for issuance without requesting permission from the Board.

**Type 3**
☞ If the DOE requests the withdrawal subsequent to being notified a request for review of the request for issuance.
⇒ The request for issuance for the specified monitoring period shall be marked as “withdrawn”. The DOE may re-submit the request for issuance for the same monitoring period after such withdrawal. In this case, the DOE shall request permission from the Board to resubmit such request.

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**BOX: Guidance on a request for issuance of CERs**
The EB clarified that only verification activities undertaken after the publishing of monitoring report on the UNFCCC CDM website shall be used as a basis for DOE to conclude their verification and submit a request for issuance of CERs to the EB.

[EB60 Rep para101]
17. Distribution of CERs

- Upon being instructed by the EB to issue CERs for a CDM project activity, the CDM registry administrator shall, promptly, issue the specified quantity of CERs into the pending account of the EB in the CDM registry. [CMP/2005/8/Ad1, p19 para66]
- The issuance of CERs, in accordance with the distribution agreement, shall be effected only when the share of proceeds to cover administrative expenses (SOP-Admin) of the CDM has been received. [CMP/2005/8/Ad1, p98 para37]
- The SOP-Admin shall be:
  - **USD 0.10** per CER issued for the 1st 15,000 t-CO₂ equivalent for which issuance is requested in a given calendar year;
  - **USD 0.20** per CER issued for any amount in excess of 15,000 t-CO₂ equivalent for which issuance is requested in a given calendar year.
  - **No share** of proceeds shall be due for project activities and PoAs hosted in LDCs. In the case of PoAs hosted not exclusively in LDC, the exemption from the share of proceeds applies to the issuance of CERs for the emission reductions occurring in CPAs hosted in least developed countries. The application of this exemption from the share of proceeds shall be based on the status of the country on the date of the publication of the request for issuance of CERs. [PCP ver.3.2, App1], [EB74Anx11]
  - The registration fee shall be deducted from the SOP-Admin. (chap.13-3)

- Among issued CERs, 2% of those will be deducted for share of proceeds to assist developing Parties that are particularly vulnerable to the adverse effects of climate change to meet the costs of adaptation (SOP-Adaptation). [CP/2001/13/Ad2, p23 para15(a)]
- CDM project activities in least developed country Parties shall be exempt from the SOP to assist with the costs of adaptation. [CP/2001/13/Ad2, p23 para15(b)]
- CERs are forwarded to the registry accounts of PPs, in accordance with their request. [CMP/2005/8/Ad1, p20 para66(b)]
- The decision on the distribution of CERs shall exclusively be taken by PPs. [Glos ver5, p25]
  - PPs shall communicate with the EB, through the secretariat, in writing in accordance with the “modalities of communication” as indicated at the time of registration or as subsequently altered.
  - If a PP does not wish to be involved in taking decisions on the distribution of CERs, this shall be communicated to the EB through the secretariat at the latest when the request regarding the distribution is made.
  - The request regarding the distribution of CERs can only be changed if all signatories have agreed to the change and signed the appropriate document. [Glos ver5, p26]
- Requests for the partial distribution of CERs issued in a single transaction shall be allowed. [EB21 Rep, para70]

**BOX: Transferring CERs from the CDM registry**

The CDM registry is to enable non-Annex I Parties, and entities from non-Annex I Parties, to transfer CERs from their holding accounts in the CDM registry to accounts in national registries. [CP/2004/2/, p15 para58]
**18. Renewal of crediting period**

PP shall update the sections of the PDD of the project activity relating to the baseline, estimated GHG emission reductions and the monitoring plan using a baseline and monitoring methodology as follows:

☞ a) The latest AM, applied in the original PDD of the registered CDM project activity, shall be used whenever applicable;
☞ b) If the methodology applied in the original PDD was withdrawn after the registration of the project activity and replaced by a consolidated methodology, project participants shall use the latest approved version of the respective consolidated methodology;
☞ c) If the registered project activity does not meet the applicability criteria of the options provided for in subparagraphs (a) or (b) above, due to their revision or due to the update of the baseline, PP shall either:
   i. Select another applicable methodology; or
   ii. Request, through the DOE, a deviation from a methodology for the purpose of renewal of the crediting period.

• The demonstration of the validity of the original baseline or its update does not require a reassessment of the baseline scenario, but rather an assessment of the emissions which would have resulted from that scenario.
• PP shall assess and incorporate the impact of national and/or sectoral policies and circumstances existing at the time of requesting renewal of the crediting period on the current baseline GHG emissions.

(2) Application for renewal of a crediting period

PPs or CME shall notify the secretariat of their intention to request a renewal of a crediting period of the registered CDM project activity by submitting an updated PDD and informing of their selection of a DOE, **within 270 to 180 days** prior to the date of expiration of the current crediting period.

☞ For the purpose of renewal of the crediting period it is not necessary to obtain a new letter of approval from Parties involved.
☞ No fee is due for the application for the renewal of the crediting period.

The DOE shall submit a request for renewal of crediting period of a registered CDM project activity or PoA using the (F-CDM-REN) along with the updated PDD, or new PoA-DD and new generic CPA-DD, and updated validation report.

If the notification of the intention to request a renewal of crediting period is not received by the secretariat **180 days** prior to the date of expiration of the current crediting period, the PP or the CME shall not be entitled to claim the issuance of CERs for the period from the expiration date of the current crediting period until the last date before the crediting period is deemed renewed.

(3) Processing of an application

For processing of the request for renewal of crediting period, the provisions in the section of “Processing request for registration” shall apply mutatis mutandis.

(4) Requesting review of request for renewal of crediting period

• A Party involved in the CDM project activity or PoA and/or any member of the Board may request a review of the request for renewal of crediting period within 28 days after the date of publication of the request for renewal of crediting period.
• If a Party involved wishes to request a review, the relevant DNA shall send the request to the Board, through the secretariat, using the (F-CDM-RENR) by official means of communication. If a member of the Board wishes to request a review, he/she shall communicate the request to the Board through the secretariat, using (F-CDM-RENR).

(5) Finalizing request for renewal of crediting period if no request for review

The crediting period of the registered CDM project activity or PoA shall be deemed renewed 28 days after the publication of the request for renewal on the UNFCCC CDM website, unless a Party involved or at least three members of the Board request a review of the request for renewal.

(6) Review of request for renewal of crediting period

• For reviews of the request for renewal of crediting period, the provisions in the section of “Review of request for registration” shall apply mutatis mutandis.
• The start date of the renewed crediting period shall be the first day after the end date of the previous crediting period.
### Step 1: Assess the validity of the current baseline for the next crediting period

#### Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies

The current baseline complies with all relevant mandatory national and/or sectoral policies which have come into effect after the submission of the project activity for validation or the submission of the previous request for renewal of the crediting period and are applicable at the time of requesting renewal of the crediting period?

- **Yes**
- **No** or if it cannot be shown that the policies are systematically not enforced and that non-compliance with those policies is widespread in the country or region

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#### Step 2: Assess the impact of circumstances

Assess the impact of circumstances existing at the time of requesting renewal of the crediting period on the current baseline emissions, without reassessing the baseline scenario. The new circumstances make a continued validity of the current baseline not plausible?

- **Yes**
- **No**

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#### Step 3.3: Assess whether the continuation of the use of current baseline equipment(s) is technically possible

This sub-step should only be applied if the baseline is the continuation of the current practice. Assess whether the remaining technical lifetime of the equipment that would have continued to be used in the absence of the project activity exceeds the crediting period for which renewal is requested.

- **Yes**
- **No**

**Option: Limit the crediting period to the end of the technical lifetime of the baseline equipment**

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#### Step 4: Assessment of the validity of the data and parameters

Assess whether data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid or whether they should be updated. Updates should be undertaken in the following cases:

- Where IPCC default values are used, the values should be updated if any new default values have been adopted and published by the IPCC;
- Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if those figures are based on the historical situation at the site of the project activity and can not be updated because the historical situation does not exist anymore as a result of the CDM project activity.

- **Yes**
- **Not valid**

If the application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline as well as data and parameters are still valid for the subsequent crediting period, then this baseline, data and parameters can be used for the renewed crediting period.

- **Valid**
- **Not valid**

The current baseline needs to be updated for the subsequent crediting period.

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### Step 2: Update the current baseline and the data and parameters

#### Step 2.1: Update the current baseline

Update the current baseline emissions for the subsequent crediting period, without reassessing the baseline scenario, based on the latest version of the AM applicable to the project activity. The procedure should be applied in the context of the sectoral policies and circumstances that are applicable at the time of request for renewal of the crediting period.

#### Step 2.2: Update the data and parameters

If the application of Step 1.4 showed that the data and/or parameter(s) that were only determined at the start of the crediting period and not monitored during the crediting period are not valid anymore, PPs should update all applicable data and parameters, following the guidance in Step 1.4.
19. Small-scale CDM (SSC)

19-1. Definition of small-scale CDM (SSC)

Simplified modalities and procedures are applicable for the following small-scale CDM project activities. 

**Type I**

Project activities shall remain the same, such that renewable energy project activities shall have a maximum output capacity of 15 MW (or an appropriate equivalent) [CMP/2006/10/Ad1, p8 para28(a)]

**Type II**

Project activities or those relating to improvements in energy efficiency which reduce energy consumption, on the supply and/or demand side, shall be limited to those with a maximum output of 60 GWh/y (or an appropriate equivalent) [CMP/2006/10/Ad1, p8 para28(b)]

**Type III**

Project activities, otherwise known as other project activities, shall be limited to those that result in emission reductions of less than or equal to 60 kt CO2 equivalent annually [CMP/2006/10/Ad1, p8 para28(c)]

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**Project activity eligibility** [PS ver.3, para 80 - 84]

- The scope of the maximum output capacity of 15 MW, project participants shall consider the following:
  - Regarding “maximum output”, “output” is the installed/rated capacity as indicated by the manufacturer of the equipment or plant, irrespective of the actual load factor of the plant.
  - Regarding the “appropriate equivalent” of 15 MW refers to MW, but project participants may refer to MW(p) MW(e) or MW(th). As MW(e) is the most common denomination, MW is defined as MW(e), and otherwise an appropriate conversion factor is to be applied.
  - For biomass, biofuel and biogas project activities, the maximal limit of 15 MW(e) is equivalent to a 45 MW thermal output of the equipment or the plant (e.g. boilers). For thermal applications of biomass, biofuels or biogas (e.g. cook stoves), the limit of 45 MWth is the installed/rated capacity of the thermal application equipment or device(s) (e.g. biogas stoves). For electrical or mechanical applications, the limit of a 15 MW installed/rated output shall be used. In the case of co-firing renewable and fossil fuels, the rated capacity of the system when using fossil fuel shall apply.
  - For thermal applications of solar energy projects, 14 “maximum output” shall be calculated using a conversion factor of 700 Wth/m2 of aperture area of glazed flat plate or evacuated tubular collector.
- The three types of small-scale CDM project activities defined above are mutually exclusive. In a small-scale project activity with more than one component following the CDM SSC M&Ps, each component shall meet the threshold criterion of each applicable type.
- The sum of the size of components of a small-scale CDM project activity belonging to the same type shall not exceed the limits for small-scale project activities.
19-2. Simplified modalities and procedures

♦ SSC project activities shall follow the stages of the project cycle specified in the CDM M&P. In order to reduce transaction costs, however, modalities and procedures are simplified for SSC project activities, as follows: [CMP/2005/8/Ad1, p45 para9]
☞ Project activities may be bundled or portfolio bundled at the following stages in the project cycle: the PDD, validation, registration, monitoring, verification and certification;
☞ The requirements for the PDD are reduced;
☞ Baselines methodologies by project category are simplified to reduce the cost of developing a project baseline;
☞ Monitoring plans are simplified to reduce monitoring costs;
☞ The same OE may undertake validation, and verification and certification.

Leakage in CDM project
☞ For a CDM project (non-A/R) or PoA (non-A/R), the net change of anthropogenic emissions by sources of GHG which occurs outside the project boundary, and which is measurable and attributable to the CDM project or PoA, as applicable. [Glos ver7, p13]
☞ For an A/R or SSC A/R CDM project or PoA (A/R), the increase in GHG emissions by sources or decrease in carbon stock in carbon pools which occurs outside the boundary of an A/R or SSC A/R CDM project or PoA (A/R), as applicable, which is measurable and attributable to the A/R or SSC A/R CDM project or PoA (A/R), as applicable. [Glos ver7, p13]

Standard for sampling and surveys for CDM project activities and programme of activities [EB69 Anx4]
☞ Several AMs require estimates of parameter values using sampling methods. This guidelines are to specify the reliability requirements and provide guidance on appropriate sampling methods.
☞ While the focus of the guidelines is on end-use energy efficiency and renewable energy applications, its application is not limited to these applications alone.

BOX: Simplified baseline and monitoring methodologies
☞ There is a “General Guidelines to SSC CDM methodologies”. (Version 17) [EB69 Anx27]
☞ There is a “Guidelines for Completing F-CDM-SSC-PDD, F-CDM-SSC-Subm and F-CDM-SSC-BUNDLE”. (Version 5) [EB34 Anx9]
☞ There are approved methodologies for small scale CDM project activities (AMS). (Att.1)
Additionality for SSC project activities (Guidelines on the demonstration of additionality of small-scale project activities)

PPs shall provide an explanation to show that the project activity would not have occurred anyway due to at least one of the following barriers:

**Investment barrier:**
☞ a financially more viable alternative to the project activity would have led to higher emissions;

**Technological barrier:**
☞ a less technologically advanced alternative to the project activity involves lower risks due to the performance uncertainty or low market share of the new technology adopted for the project activity and so would have led to higher emissions;

**Barrier due to prevailing practice:**
☞ prevailing practice or existing regulatory or policy requirements would have led to implementation of a technology with higher emissions;

**Other barriers:**
☞ without the project activity, for another specific reason identified by the PP, such as institutional barriers or limited information, managerial resources, organizational capacity, financial resources, or capacity to absorb new technologies, emissions would have been higher.

Quantitative evidence that the project activity would otherwise not be implemented may be provided instead of a demonstration based on the barriers listed above.

Documentation of barriers is not required for the positive list of technologies and project activity types that are defined as automatically additional for project sizes up to and including the small-scale CDM thresholds (e.g. installed capacity up to 15 MW). The positive list comprises of:  

- **(a)** The following grid-connected and off-grid renewable electricity generation technologies
  - (i) Solar technologies (photovoltaic and solar thermal electricity generation);
  - (ii) Off-shore wind technologies;
  - (iii) Marine technologies (wave, tidal);
  - (iv) Building-integrated wind turbines or household rooftop wind turbines of a size up to 100 kW;
- **(b)** The following off-grid electricity generation technologies where the individual units do not exceed the thresholds indicated in parentheses with the aggregate project installed capacity not exceeding the 15 MW threshold:
  - (i) Micro/pico-hydro (with power plant size up to 100 kW);
  - (ii) Micro/pico-wind turbine (up to 100 kW);
  - (iii) PV-wind hybrid (up to 100 kW);
  - (iv) Geothermal (up to 200 kW);
  - (v) Biomass gasification/biogas (up to 100 kW);
- **(c)** Project activities solely composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM thresholds;
- **(d)** Rural electrification project activities using renewable energy sources in countries with rural electrification rates less than 20%; the most recent available data on the electrification rates shall be used to demonstrate compliance with the 20 per cent threshold. In no case shall data be used if older than three years from the date of commencement of validation of the project activity.
19-3. Bundling of SSC

**Bundling** [Glos ver7, p7]
- Bundle is defined as several SSC or SSC A/R CDM project activities which form a single project activity or portfolio without the loss of distinctive characteristics of each component.

**Debundling** [EB54 Anx13]
- Debundling is defined as the fragmentation of a large scale project activity into smaller parts.
- A small-scale project activity that is part of a large scale project activity is not eligible to use the simplified modalities and procedures for SSC project activities.
- There is the “Guidelines on assessment of de-bundling for SSC project activities (Version 03)”. [EB54 Anx13]
- A proposed small-scale project activity shall be deemed to be a debundled component of a large scale project activity if there is a registered SSC project activity or a request for registration by another small-scale project activity: (a) With the same project participants; (b) In the same project category and technology/measure; (d) Registered within the previous 2 years; (e) Whose project boundary is within 1 km of the project boundary of the proposed small-scale activity at the closest point.
- The flow chart for judging the occurrence of debundling is described in the guidance.

**Requirements and guidance for any bundles** [EB66 Anx21, para7-15]
- Once a project activity becomes part of a bundle for a project cycle stage, it shall not be debundled for this stage. The Board may consider debundling in exceptional situations.
- The composition of bundles shall not change over time (i.e. the submission of project activities to be used in a bundle shall be made at the same time. A project activity shall not be taken out of a bundle nor shall a project activity be added to the bundle after registration).
- All project activities in the bundle shall have the same crediting period.
- To submit a bundle of project activities for validation, project participants shall complete the and provide all necessary information and documentation to demonstrate compliance of the bundle with all applicable CDM rules and requirements.
- The sum of the size of the technology or measure utilized in the bundle shall not exceed the limits of each type of small-scale project activities as defined in the Project standard (type I, II or III).
- It shall be demonstrated that the bundle will remain under the limit of its type every year during the crediting period. The total emission reductions estimated for the crediting period shall be included in PDD of each project activity and further monitored.
- If during its crediting period a bundle goes beyond the limits of its type, the emission reductions that can be claimed for this particular year shall be capped at the maximum emission reductions estimated in the PDD of the registered project activities in the bundle for that year during the crediting period.

**Letter of approval** [EB66 Anx21, para16]
- The letter of approval by the host Party(ies) shall indicate that the Party is aware that the project activity(ies) taking place in its territory is part of the bundle.

**Overall monitoring plan** [EB66 Anx21, para17]
- Whether a bundle of project activities is submitted with a single or multiple PDDs, it will have only one reference number for all project activities in the bundle for the issuance of certified emission reductions (CERs).

**Validation and verification** [EB66 Anx21, para19-23]
- A single designated operational entity (DOE) may validate the bundle of project activities.
- All PDDs shall be made publicly available at the same time for public comments in the global stakeholder consultation.
- Bundled project activities shall be submitted in a single submission to the Board and pay only one fee proportional to the amount of expected average annual emission reductions of the total bundle.
- One verification report is adequate for the bundle of project activities, and one issuance of CERs will be made at the same time for the same crediting period.
20. Afforestation and Reforestation CDM (A/R CDM)

20-1. Overview of A/R CDM

Rules and procedures regarding A/R CDM project activities are similar to those of GHG emission reduction CDM project activity. The most significant difference of A/R CDM is non-permanence. In A/R CDM, CO₂ once sequestered in trees could be release back into the atmosphere in an occasion of such as forest fire or die back from pests. The issue of non-permanence is addressed by creating different type of CERs, namely temporary CERs (tCERs) and long-term CERs (lCERs).

Procedures to demonstrate the eligibility of lands for A/R CDM project activities

♦ 1. PPs shall provide evidence that the land within the planned project boundary is eligible for an A/R CDM project activity. (a) Demonstrate that the land at the moment the project starts does not contain forest by providing transparent information that:
   ⇒ Vegetation on the land is below the forest thresholds adopted by the host country; and
   ⇒ All young natural stands and all plantations on the land are not expected to reach the minimum crown cover and minimum height chosen by the host country to define forest; and
   ⇒ The land is not temporarily unstocked, as a result of human intervention.
   (b) Demonstrate that the activity is a reforestation or afforestation project activity:
   ⇒ For reforestation project activities, demonstrate that the land was not forest by demonstrating that the conditions outlined under (a) above also applied to the land on 31 December 1989.
   ⇒ For afforestation project activities, demonstrate that for at least 50 years vegetation on the land has been below the thresholds adopted by the host country for definition of forest.

♦ 2. In order to demonstrate steps 1 (a) and 1 (b), PPs shall provide information that reliably discriminates between forest and non-forest land according to the particular thresholds, inter alia:
   (a) Aerial photographs or satellite imagery complemented by ground reference data; or
   (b) Land use or land cover information from maps or digital spatial datasets; or
   (c) Ground based surveys (land use or land cover information from permits, plans, or information from local registers such as cadastre, owners registers, or other land registers).

If options (a), (b), and (c) are not available/applicable, PP shall submit a written testimony which was produced by following a Participatory Rural Appraisal (PRA) methodology or a standard Participatory Rural Appraisal (PRA) as practised in the host country.

Crediting period of the A/R CDM project activity

It begins at the start of the A/R CDM project activity and can be either:
☞ A maximum of 20 years, may be renewed twice (total 60 years maximum)
☞ A maximum of 30 years

A/R CDM project activity starting after 1 January 2000 can be validated and registered after 31 December 2005 as long as the 1st verification of the project activity occurs after the date of registration.

Given that the crediting period starts at the same date as the starting date of the project activity, the projects starting 2000 onwards can accrue tCERs/lCERs as of the starting date.

The initial verification and certification of an A/R CDM project activity may be undertaken at a time selected by the PPs. Thereafter, verification and certification shall be carried out every 5 years until the end of the crediting period.

Project boundary

The EB agreed to the “Guidance on the application of the definition of project boundary to A/R CDM project activities” which provides the option for fixing the project boundary at the first verification, thereby allowing for more flexibility in delineation of areas of land at registration.
20-2. Non-permanence of A/R CDM (tCER and lCER)

Temporary CERs (tCERs) and Long-term CERs (lCERs):
☞ The PPs shall select one of the following approaches to addressing non-permanence of an A/R CDM project activity [CMP/2005/8/Ad1, p70 para38]:
   (a) Issuance of tCERs for the net GHG removals by sinks achieved by the project activity since the project starting date; or
   (b) Issuance of lCERs for the net GHG removals by sinks achieved by the project activity during each verification period
☞ The approach chosen to address non-permanence shall remain fixed for the crediting period including any renewals.

Expiry of tCERs and lCERs
☞ Each tCER shall expire at the end of the commitment period subsequent to the commitment period for which it was issued. [CMP/2005/8/Ad1, p71 para42]
☞ Each lCER shall expire at the end of the crediting period or, where a renewable crediting period is chosen, at the end of the last crediting period of the project activity. [CMP/2005/8/Ad1, p71 para46]

Example: Changes in net GHG removals by an A/R project activity
The chart below shows changes in GHG removals by an A/R project activity. In the next two pages, an explanation of issuance and expiration of tCERs and lCERs will be given based on the assumptions shown in the chart below.
☞ Trees are planted in 2007.
☞ 1st issuance of tCERs or lCERs takes place in 2011. Trees are left to grow during the 1st and 2nd commitment periods and 2nd issuance of tCERs or lCERs takes place in 2016.
☞ Assuming each commitment period (CP) would be 5 years.
☞ Trees are cut in 2017 before the end of the 2nd commitment period (CP) and 3rd issuance takes place in 2021. The last issuance takes place in 2036.
☞ Each tCER or lCER issued will be used for achieving a Party’s emission reduction target.
☞ Crediting period is 30 years without renewal.
20-3. Small-scale A/R CDM

**Definition of small-scale A/R CDM project activity**

- Those that are expected to result in net GHG removals by sinks of less than 16,000 t-CO₂/year; [CMP/2007/9/Ad1, p26]
  - The average projected net GHG removals by sinks for each verification period shall not exceed 16,000 t-CO₂/year. [CP/2004/10/Ad2, p26 para1(b)]
- Developed or implemented by low-income communities and individuals as determined by the host Party. [CMP/2005/8/Ad1, p62 para1(i)]
  - Prior to the submission of the validation report to the EB, the DOE have received from the PPs a written declaration of that. [CMP/2005/8/Ad1, p85 para15(b)]

**Simplified modalities and procedures for small-scale A/R CDM project activity**

- In order to reduce transaction costs, modalities and procedures are simplified for small-scale A/R CDM project activities as follows: [CMP/2005/8/Ad1, p82 para1]
  - The requirements for the project design document are reduced;
  - Baseline methodologies by project type are simplified to reduce the cost of developing a project baseline;
  - Monitoring plans are simplified, including simplified monitoring requirements, to reduce monitoring costs;
  - The same operational entity may undertake validation, and verification and certification.
- Small-scale A/R CDM project activities shall be:
  - exempt from the share of proceeds to be used to assist developing country Parties that are particularly vulnerable to the adverse effects of climate change;
  - entitled to a reduced level of the non-reimbursable fee for requesting registration and a reduced rate of the share of proceeds to cover administrative expenses of the CDM. [CMP/2005/8/Ad1, p83 para13]

- There is a “Guidelines for completing the small-scale afforestation and reforestation baseline monitoring and methodology submission form.” (Version 01.1) [EB66 Anx28]

- There is “Guidelines on application of specified versions of A/R CDM methodologies in verification of registered A/R CDM project activities” (ver.01) to allow a registered A/R CDM project activity to apply, at the time of verification, the improvements in the methodology that occurred after the date of registration of the project activity. [EB63 Anx26]

- There is “Guidelines on accounting of specified types of changes in A/R CDM project activities from the description in registered project design documents” (ver.02) to provide guidelines on addressing, in verification of A/R CDM project activities, specified types of changes from the description contained in the registered PDD. [EB66 Anx24]

If a small-scale A/R CDM project activity results in net GHG removals by sinks greater than 16,000t of CO₂ per year, the excess removals will not be eligible for the issuance of tCERs or lCERs. [CMP/2007/9/Ad1, p26]

The “General principles for bundling” [EB21, Anx 21] may not be applicable mutatis mutandis in the context of bundles of small scale A/R project activities created for the purpose of validation. [EB32 Rep, para42]
21. CDM Programme of activities (PoA)

21-1. Overview of programme of activities (PoA)

**A programme of activities (PoA) and a CDM programme activity (CPA)**

A programme of activities (PoA) is [Glos ver.7, p15]:
☞ a voluntary coordinated action;
☞ by a private or public entity which coordinates and implements any policy/measure or stated goal (i.e. incentive schemes and voluntary programmes);
☞ which leads to GHG emission reductions or net anthropogenic GHG removals by sinks that are additional to any that would occur in the absence of the PoA;
☞ via an unlimited number of CDM programme activities (CPAs).

A CDM programme activity (CPA) is [Glos ver.7, p10]:
☞ a single, or a set of interrelated measures under a PoA, to reduce GHG emissions by sources or result in net anthropogenic GHG removals by sinks, applied within a designated area defined in the baseline methodology(ies).

### Coordinating / managing entity (CME) [Glos ver.7, p9]
☞ CME is an entity authorized by all participating host country DNAs involved in a particular PoA and nominated in the MoC (chap. 4-7) statement as the entity that communicates with the EB and the secretariat, including on matters relating to the distribution of CERs, tCERs or ICERs, as applicable.
☞ The CME shall be either the sole or a joint focal point for each scope of authority. The number of joint focal points for a PoA shall be limited to 5 or equal to the number of host Parties if greater than 5. [PCP ver.3.2para30]
☞ The operators of individual CPAs are not required to be PP. CDM project participation is only recorded at the PoA level. [PS ver.3,para175]

### Boundary
☞ A new host Party(ies) may be added after the registration of the PoA. In this case, CME shall request for approval by the Board, following the post-registration change process as defined in the Project cycle procedure. [PS ver.3, para171]

### Registration fee for a PoA [EB33 Rep, para60]
☞ The registration fee for a PoA is based on the total expected annual emission reductions of the CPA(s) that will be submitted together with the request for registration of the PoA. The calculation of the amount to be paid and the procedures for payment will follow mutatis mutandis the existing rules. (chap.13-3)
☞ For each CPA which is included subsequently, no fee is to be paid.
☞ Fees are to be paid by the CME to the secretariat.
Application of multiple methodologies for PoA

- Combinations of technologies/measures and/or methodologies for a PoA are eligible where it is demonstrated that there are no cross effects between the technologies/measures applied. Where such cross effects do exist, the CME shall propose methods to account for such cross effects requesting deviation (Chap. 11). [EB74 Anx25]

- The following combinations of approved methodologies may be applied without further assessment of cross effects: (a) AMS-III.R with AMS-I.C; (b) Combination of any one of the Type III methodologies where activities lead to methane generation (i.e. AMS-III.H, AMS-III.D, AMS-III.F and AMS-III.G), with any one of the Type I methodologies that utilise the methane for generating renewable energy, (i.e. AMS-I.A, AMS-I.C, AMS-I.D and AMS-I.F); (c) AMS-III.D, AMS-I.C and AMS-I.F; (d) AMS-I.C and AMS-I.F (approved at EB 61); (e) AMS-III.AO and AMS-I.E; (f) AMS-I.A, AMS-I.D and AMS-I.F; (g) AMS-I.E and AMS-II.G [EB69 Anx27]

Sampling of the PoA

There are “Standard for sampling and surveys for CDM project activities and programme of activities” [EB69 Anx4] and “Guidelines for sampling and surveys for CDM project activities and programme of activities” including examples [EB69 Anx5]

Start date of a PoA [PS ver. 3, para159]

- The start date of a PoA shall be either of the two dates below:
  a) The date of notification of the intention to seek the CDM status by the CME to the secretariat and the DNA; or
  b) The date of publication of the PoA-DD for global stakeholder consultation.

Duration of the PoA [PS ver.3, para160]

- The duration of the PoA, shall not exceed 28 years (60 years for A/R project activities), and shall be defined by the entity at the time of request for registration of the PoA.

- Any CPA can be added to the PoA at any time during the duration of the PoA by the CME. The entity shall inform the EB of the adding of CPA(s) through a DOE using a predefined format.

Crediting period and starting date of the CPA [PS ver.3, para163]

a) The start date of the crediting period of a CPA shall be on or after
   i. The date of registration of the PoA, if the corresponding CPA-DD is submitted together with the request for registration;
   ii. The date of approval of the corresponding specific case CPA-DD, if the specific case CPA-DD is submitted for approval by the Board
   iii. The date when the CPA was included in accordance with the Project cycle procedure
b) Each renewable crediting period shall be at most seven years (20 years for an A/R CPA) and may be renewed at most two times, for a maximum total length of 21 years (60 years for an A/R CPA). The first renewal of the crediting period of the CPA shall be conducted seven years after the start date of the crediting period of the CPA
c) A fixed crediting period shall be at most 10 years;
d) The duration of the crediting period of a CPA shall not exceed the duration of the PoA, regardless of the crediting period type of the CPA (renewable or fixed).

The EB agreed that the “Guidelines for the demonstration and assessment of prior consideration of the CDM” do not apply to PoAs, as it is expected that no component of the programme will commence prior to the start date of validation. [EB60 Anx26]

The EB agreed that if an A/R project activity was started after 10 December 2005 and complies with the eligibility criteria for inclusion as an A/R CPA under the A/R PoA, then the project activity may be included as an A/R CPA and its crediting period starts at the starting date of the project activity. [EB53 Rep para40]
21. Procedures for programme of activities (PoA)

Preparation of a F-CDM-PoA-DD and the F-CDM-CPA-DD
☞ The CME and/or project participants shall select a DOE for the validation of the proposed CDM PoA and CPA that is accredited for the validation function and sectoral scopes(s) of the PoA. The CME and/or project participants shall have a contractual arrangement with the DOE for the validation. [PS ver.3 para182]
☞ The CME shall submit to the selected DOE for validation the completed PoA-DD, the generic CPA-DD and the completed CPA-DD.
☞ The DOE shall assess the management system described in the PoA design document (CDM- PoA-DD) (chap.21-3). [VVS ver.3, para186]
☞ The DOE shall assess any proposed CPA that a CME wishes to include in the PoA, to determine whether it complies with the eligibility criteria specified in the CDM- PoA-DD. The means of validation to determine compliance with this requirement will be specific to the PoA. [VVS ver.3, para187]
☞ The DOE should consider a desk review of the documentation sufficient to determine compliance in certain instances and also consider follow-up interviews and/or site visits necessary for other types of PoA. [VVS ver.3, para188]

Inclusion of component project activities in programme of activities
☞ A CME may include a CPA in a registered CDM PoA at any time during the duration of the PoA provided that the requirements in paragraphs.
☞ The CME shall then submit to a DOE a completed CPA-DD specific to the proposed CPA demonstrating compliance of the CPA with all applicable requirements.

Inclusion or renewal of a crediting period of a CPA under a registered PoA
⇒ The DOE shall assess the CPA and the specific CDM- CPA-DD against the latest version of the PoA to determine whether the CPA meets the requirements of the PoA. [EB72 Anx3 para204]
⇒ If a DNA involved in the PoA or a Board member identifies information that may disqualify the CPA from inclusion in the PoA or renewal of its crediting period, it/he/she shall request a review of the inclusion of the CPA by notifying the Secretary of the Board within one 1 year after the inclusion of the CPA into the PoA or renewal of the crediting period of the CPA, or within 180 days after the first issuance of CERs for that CPA, by submitting a completed "Component project activity inclusion review form"(F-CDM-CPAR). Such a request for review shall be related to issues associated with the compliance of the CPA with the eligibility criteria specified in the PoA-DD. [EB72 Anx4 para119]
⇒ For renewal of crediting period of a registered CDM PoA, the CME shall update the eligibility criteria for inclusion of CPA s in the PoA in accordance with the “Clean development mechanism project standard”, and include them in new versions of the PoA-DD and generic CPA-DD, to be validated by the DOE and approved by the Board [EB72 Anx4 para249]
⇒ For renewal of crediting period of CPA s in a registered CDM PoA, if the DOE confirms that the information in the CPA-DD of a CPA included in the PoA complies with the latest version of the PoA and applicable requirements, it shall renew the crediting period of the CPA by submitting the CPA-DD to the Board by uploading it on the UNFCCC CDM website. [EB72 Anx4 para250]
Application of multiple methodologies in programme of activities [PCP ver.3.2 para53, 54, 55]
☞ If the PoA applies only small-scale methodologies, and if “cross effects” as defined in the Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities” exist between the technologies or measures applied, the CME shall propose methods to account for such cross effects and request approval by the Board using the process.

• Before submitting such request, the CME may seek clarification from the Board on cross effects in the proposed combination of technologies or measures, using the procedure “Development, revision and clarification of baseline and monitoring methodologies and methodological tools” by submitting the PoA-DD and generic CPA-DD with completed sections for detailed technical descriptions. Where possible, such clarification requests shall be treated under the “fast track” of the procedure and the clarification shall be provided within 28 days.

☞ If the PoA applies only large-scale methodologies, or both large-scale and small-scale methodologies, and if the combination is explicitly permitted in the methodologies, the DOE may proceed with the publication of the PoA-DD or the request for registration without pre-approval by the Board of the application of the multiple methodologies.

Procedures for review of erroneous inclusion or renewal of crediting period of CPAs [PCP ver.3.2 para119 - 129]

(1) Requesting a review of erroneous inclusion
☞ If a DNA involved in the PoA or a Board member identifies information that may disqualify the CPA from inclusion in the PoA or renewal of its crediting period, it/he/she shall request a review of the inclusion of the CPA by notifying the Secretary of the Board within 1 year after the inclusion of the CPA into the PoA or renewal of the crediting period of the CPA, or within 180 days after the first issuance of CERs for that CPA, by submitting a completed (F-CDM-CPAR).

☞ If the request is received from a Board member, the Chair of the Board decide, within 14 days, whether to add the request for review to the agenda of the next Board meeting.

☞ If the Chair of the Board decides to add the request to the agenda of the next Board meeting, or if the request has been received from a Party involved, the secretariat shall accordingly notify the coordinating/managing entity, the DOE and the DNAs of all Parties involved. The CME and the including DOE shall provide initial comments on the request for review no later than 28 days from the date of notification of the review.

(2) Consideration of a request for review
☞ At the Board meeting, taking into account any comments received from the CME and the including DOE:

Initiate a full review if it determines that the consideration of the request for review raises concerns regarding the processes used to include CPAs in the PoA

Exclude the CPA from the PoA with immediate effect if it determines that the CPA was erroneously included in the PoA

(3) Full review of erroneous inclusion
☞ If the Board initiates the full review, it shall request the secretariat to contract a DOE, that has not performed validation, registration, CPA inclusion or verification functions with regard to this PoA, to review the CPAs. The DOE shall submit a review report to the secretariat within 30 days.

☞ The Board shall establish an assessment team to analyse the DOE’s review report and provide findings and recommendations to the Board within 14 days. Based on this assessment, the assessment team shall make a finding as to
   a) Whether any CPAs have been erroneously included in the PoA; and
   b) Whether the compliance of each of the CPAs reviewed with the eligibility criteria for inclusion in the PoA was adequately assessed by the including DOE.

The Board shall consider the DOE’s review report and the assessment team’s finding at the next Board meeting for which the report and the finding have been made available by the 14-day document deadline.

The Board shall decide to exclude any of the CPAs from the PoA if it concludes that they have been erroneously included.

Any CPA that has been excluded shall not be re-included in that or any other PoA, or qualify as a CDM project activity.
21-3. Standard for the development of eligibility criteria

A. Requirements for the development of eligibility criteria

Coordinating/Managing Entity (CME)

The CME shall develop eligibility criteria for inclusion of CPAs in the PoA and shall include these criteria in the PoA-DD and demonstrate their usability to assess the inclusion of CPAs in the generic CPA-DD. There is a minimum set of elements to be covered by the eligibility criteria.

The CME shall develop and implement a management system that includes the following made available to the DOE at the time of validation of the PoA:
(a) A clear definition of roles and responsibilities of personnel involved in the process of inclusion of CPAs, including a review of their competencies;
(b) Records of arrangements for training and capacity development for personnel;
(c) A procedure for technical review of inclusion of CPAs;
(d) A procedure to avoid double counting (e.g. to avoid the case of including a new CPA that has already been registered either as a CDM project activity or as a CPA of another PoA);
(e) Records and documentation control process for each CPA under the PoA;
(f) Measures for continuous improvements of the PoA management system;
(g) Any other relevant elements.

Designated operational entity (DOE)

The validating DOE shall determine whether the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA.

The DOE shall assess the elements of the management system as part of the validation of the PoA or as part of the validation of a CPA inclusion.

CPAs may be included in the PoA on the basis that the DOE has confirmed the eligibility of the CPAs where applicable undertaking sample-based checks in accordance with the guidelines/standard approved by the Board.

For PoAs that include combinations of technologies/measures and/or methodologies, distinct eligibility criteria shall be developed per combination as EB70 Anx5 para29.
B. Requirements for updating eligibility criteria

(1) Methodologies applied by the PoA is revised or replaced subsequent to being placed on hold

☞ The CME shall update the eligibility criteria to the requirements of the revised or new methodologies with immediate effect. A new version of the PoA-DD (e.g. version 1.1) and the generic CPA-DDs containing updated eligibility criteria validated by a DOE shall be submitted to the secretariat for approval by the Board.

Once the changes have been approved by the Board, the inclusion of all new CPAs shall be based on the updated eligibility criteria applying the corresponding new generic CPA-DDs;

CPAs that were included before the methodology was put on hold shall apply the revised version of the corresponding generic CPA-DDs only at the time of the renewal of their crediting periods.

(2) The version of the methodologies applied by the PoA is revised without being placed on hold or is withdrawn for the purpose of inclusion in a consolidated methodologies, unless otherwise indicated in the respective report of the meeting of the Board that has approved the new methodologies.

☞ No action is required.

(3) The boundary of the PoA is amended post-registration to expand the geographic coverage or to include one or more additional host Parties,

☞ The CME shall update the eligibility criteria to reflect the consequent changes. A new version of the PoA-DD (e.g. version 1.2) and the generic CPA-DDs containing updated eligibility criteria validated by a DOE shall be submitted to the secretariat for approval by the Board.

Once the changes have been approved by the Board, the inclusion of all new CPAs shall be based on the updated eligibility criteria applying the corresponding new generic CPA-DDs;

CPAs that were included before the boundary of the PoA was amended shall apply the revised eligibility criteria only at the time of the renewal of their crediting periods.

The revision of the eligibility criteria of a registered PoA may be initiated by the Board at any time during the lifetime of the PoA if an issue related to environment integrity is identified, as follows:

(a) In the event that the revision of the eligibility criteria of a PoA is requested by the Board, the CME shall update the eligibility criteria to reflect the consequent changes. A new version of the PoA-DD (e.g. version 1.3) and the generic CPA-DDs validated by a DOE shall be submitted to the secretariat for approval by the Board;

(b) Once the changes have been approved by the Board, the inclusion of all new CPAs shall be based on the updated eligibility criteria applying the corresponding new generic CPA-DDs;

(c) CPAs that were included before the revision of the eligibility criteria shall apply the revised eligibility criteria only at the time of the renewal of their crediting periods.

At the renewal of a PoA, the CME shall update the eligibility criteria as per the latest revised applicable methodologies. A new version of the PoA-DD (e.g. version 1.4) and the generic CPA-DDs validated by a DOE shall be submitted to the secretariat for approval by the Board in accordance with the renewal of PoA process as defined in the “Clean development mechanism project cycle procedure”.

(a) Once the changes have been approved by the Board, the inclusion of all new CPAs shall be based on the updated eligibility criteria applying the corresponding new generic CPA-DDs;

(b) The subsequent CPAs requesting the renewal of the crediting period shall apply the new version of the corresponding generic CPA-DDs.
The EB establishes and maintains a CDM registry to ensure the accurate accounting of the issuance, holding, transfer and acquisition of CERs by non-Annex I Parties. [CMP/2005/8/Ad1, p27 para1-2]

The EB identifies a registry administrator to maintain the registry under its authority.

The CDM registry is in the form of a standardized electronic database, which enables the accurate, transparent and efficient exchange of data between national registries, the CDM registry and the international transaction log.

The CDM registry will have the following accounts.

1. **One pending account for the EB**, into which CERs are issued before being transferred to other accounts. [CMP/2005/8/Ad1, p27 para3(a)]

2. **Holding accounts for non-Annex I Party of hosting a CDM project activity or requesting an account.** [CMP/2005/8/Ad1, p27 para3(b)]

3. **Cancellation accounts for excess CERs, to cancel KP units equal to excess CERs issued, as determined by the EB.** [CMP/2005/8/Ad1, p27 para3(c)]

4. **Cancellation account for tCERs and lCERs, that have expired in a holding account of the CDM registry, and ICERs that have become ineligible.** [CMP/2005/8/Ad1, p80 para3]

5. **Accounts for the share of proceeds, to hold and transfer CERs corresponding to the SOP-Adaptation.** [CMP/2005/8/Ad1, p27 para3(d)]

6. **Voluntary cancellation account for the cancellation of CERs in the CDM registry for voluntary purposes.** [EB69 Anx2 para1]

Accounts described in (2)(3)(5) above may have multiple accounts.

Each account will have a unique account number comprising a Party/organization identifier and a number unique to that account. [CMP/2005/8/Ad1, p27 para5]

KP units transferred to a cancellation account may not be further transferred or used for the purpose of demonstrating the compliance of a Party with its commitment.

Each CER has a unique serial number and be held in only one account in one registry at a given time. [CMP/2005/8/Ad1, p27 para4]

CERs transferred to the voluntary cancellation account in the CDM Registry may not be transferred further to any other account in any registry. [EB69 Anx2 para5]

Publicly accessible information through the CDM registry
The CDM registry shall make non-confidential information publicly available through the Internet. [CMP/2005/8/Ad1, p28 para9-12]

◆ Up-to-date information for account name, representative identifier, Party/organization identifier, etc for each account.

◆ CDM project activity information including project name, years of CER issuance, operational entities involved, downloadable documentation to be made publicly available, etc.

◆ Holding and transaction information relevant to the CDM registry, by serial number, for each calendar year

Monthly report [EB21 Rep, para70]
The CDM registry will provide the monthly reports to DNAs of respective Parties involved.
22. Registry and ITL

22-2. National registry

♦ Each Annex I Party must establish and maintain a national registry to ensure the accurate accounting of the issuance, holding, transfer, acquisition, cancellation and retirement of ERUs, CERs, AAUs and RMUs and the carry-over of ERUs, CERs and AAUs. [CMP/2005/8/Ad2, p28 para17]
☞ Each Party designates an organization as its registry administrator to maintain the national registry of that Party. [CMP/2005/8/Ad2, p28 para18]
⇒ Any 2 or more Parties may voluntarily maintain their respective national registries in a consolidated system, provided that each national registry remains distinct.
☞ A national registry is in the form of a standardized electronic database. The accurate, transparent and efficient exchange of data between national registries, the CDM registry and the transaction log should be ensured. [CMP/2005/8/Ad2, p28 para19]
♦ Each national registry has the following accounts in order to account for KP units (AAUs, ERUs, CERs, tCERs, ICERs and RMUs): [CMP/2005/8/Ad2, p28 para21]

(1) Holding account for the Party
(2) Holding account for each legal entity authorized by the Party, to hold KP units under its responsibility.
(3) Cancellation account for LULUCF activities, to cancel the KP units in case such activities result in a net source of GHG emissions.
(4) Cancellation account for non compliance, to cancel the KP units equal to 1.3 times the amount of excess emissions in case the Party was not in compliance in the 1st commitment period
(5) Cancellation account for other cancellations by the Party, to cancel KP units for purposes of cancellations other than (3) and (4) above.
(6) tCER replacement account, to cancel AAUs, CERs, ERUs, RMUs and/or tCERs for the purposes of replacing tCERs prior to expiry. [CMP/2005/8/Ad1, p71 para43]
(7) ICER replacement account, to cancel AAUs, CERs, ICERs, ERUs and/or RMUs for the purposes of replacing ICERs. [CMP/2005/8/Ad1, p71 para47]
(8) Retirement account, used to retire KP units valid for that commitment period for use towards meeting the Party’s commitments. [CMP/2005/8/Ad2, p27 para14]

☞ For accounts described in (1) (2)(3)(5), multiple accounts may be established.
☞ Accounts described in (3) (4) (5) (6) (7) (8) should be established for each commitment period.
☞ Each account must have a unique account number comprising a Party identifier and a unique number. [CMP/2005/8/Ad2, p28 para22]
♦ KP units transferred to cancellation accounts may not be further transferred or carried over to the subsequent commitment period, or be used for the purpose of demonstrating the compliance of a Party. [CMP/2005/8/Ad2, p30 para35]
♦ KP units transferred to the retirement account may not be further transferred or carried over to the subsequent commitment period. [CMP/2005/8/Ad2, p30 para35]
Serial number of KP units *Below are images for illustrative purposes

♦ Every t-CO₂ of KP units is given a unique serial number.
♦ Each KP unit shall be held in only one account in one registry at a given time.

[CMP/2005/8/Ad2, p28 para20]

Publicly accessible information through national registry

Each national registry shall make non-confidential information publicly available through the Internet.

[CMP/2005/8/Ad2, p32 para44-48]
☞ This also applies to information on accounts held by legal entities.

♦ Information on accounts
☞ The holder of the account, representative name and contact information of the account holder, etc.

♦ Information on the total quantity of KP units
♦ Holdings of KP units in each account
♦ Information on the JI project
☞ Project name, location, years of ERU issuance, relevant publicly available documentation.

♦ A list of legal entities authorized by the Party to participate to the Kyoto Mechanisms.

Serial Number Identifiers

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<th>Identifier</th>
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[Data exchange standards for registry system under the Kyoto Protocol, technical specifications (Version 1.1.2), 7 April, 2009, p F-2]
22. Registry and ITL

22-3. International transaction log (ITL)

◆ The UNFCCC secretariat establishes and maintains an international transaction log (ITL) to verify the validity of transactions, including issuance, transfer and acquisition between registries, cancellation, expiration and replacement (in case of tCER and ICER), retirement and the carry-over of KP units. [CMP/2005/8/Ad2, p31 para38] [CMP/2005/8/Ad1, p73 para55-56]

☞ The ITL is in the form of a standardized electronic database. The accurate, transparent and efficient exchange of data between national registries, the CDM registry and the ITL should be ensured.

◆ The ITL conducts the following automated check. [CMP/2005/8/Ad2, p31 para42]

(1) All transactions (issuance, transfer and acquisition between registries, cancellation, retirement and carry-over)
☞ units previously retired or cancelled; units existing in more than one registry; units for which a previously identified discrepancy has not been resolved;
☞ units improperly carried over; units improperly issued;
☞ the authorization of legal entities involved to participate in the transaction.

(2) Transfers between registries
☞ the eligibility of Parties involved in the transaction to participate in the KM;
☞ infringement upon the commitment period reserve of the transferring Party.

(3) Acquisitions of CERs from A/R CDM projects
☞ infringement of the limits (limitation for net acquisitions of tCERs and ICERs).

(4) Retirement of CERs
☞ the eligibility of the Party involved to use CERs to contribute to its compliance.

◆ Prior to the completion of any transactions, the initiating registry sends a record of the proposed transaction to the ITL and, in the case of transfers to another registry, to the acquiring national registry. [CMP/2005/8/Ad2, p31 para41]

◆ The ITL shall record, and make publicly available, all transaction records and the date and time of completion of each transaction. [CMP/2005/8/Ad2, p32 para43(d)]

◆ The ITL notifies the Annex I Party that a replacement of the tCER or ICER has to occur, 1 month prior to the expiry of each tCER or ICER. [CMP/2005/8/Ad1, p73 para55]

☞ Where a Annex I Party does not replace tCERs or ICERs in accordance with the rules, the ITL shall forward a record of non-replacement to the secretariat, for consideration as part of the review process for the relevant Party, under Art.8 of the KP, to the EB and to the Party concerned. [CMP/2005/8/Ad1, p73 para56]

BOX: In case a discrepancy is notified in the automated check by the ITL
☞ The initiating registry shall terminate the transaction, notify the ITL and, in the case of transfers to another registry, the acquiring registry of the termination. The ITL shall forward a record of the discrepancy to the secretariat for consideration as part of the review process for the relevant Party or Parties under Article 8. [CMP/2005/8/Ad2, p32 para43(a)]

☞ In the event of a failure by the initiating registry to terminate the transaction, KP units involved in the transaction shall not be valid for use towards compliance with commitments, until the problem has been corrected and questions have been resolved.

⇒ The Party shall perform any necessary corrective action within 30 days. [CMP/2005/8/Ad2, p32 para43(b)]
22-4. Issuance, transfer and acquisition of Kyoto units

Start of the 1st commitment period

- **2006**: Submission of the report for the calculated assigned amount
  
  Reviewed by ERT (expert review team) (Maximum 16 months) [CMP/2005/8/Ad2, p23 para2]

- **2008**: Emissions and removals in 2008 will be calculated and submitted to UNFCCC by 15 April 2010 [Decision 18/CP.8 para2]

  - Issuance of AAU [CMP/2005/8/Ad2, p29 para23]
  
  Reviewed by ERT (Within 1 year) [CMP/2005/8/Ad3, p64 para72-78]

  - Recording of the assigned amounts [CMP/2005/8/Ad2, p26 para9]

  - Checked by ITL

- **2009**: Recording of emission and removals in 2008


  - Checked by ITL

- **2010**: The same schedule will be applied to the following years after 2008

  - Each Party shall elect for each activity, prior to the start of the commitment period, to issue such RMUs annually or for the entire commitment period. [CMP/2005/8/Ad2, p29 para25]

- **2011**: The same schedule will be applied to the following years after 2008

- **2012**: The same schedule will be applied to the following years after 2008

**National registry**

- Holding account

- Acquisition of AAU, ERU, CER, ICER, tCER, RMU

- Checked by ITL

- Transfer of AAU, ERU, CER, ICER, tCER, RMU

- Checked by ITL

**Checked by International Transaction Log (ITL)** [CMP/2005/8/Ad2, p31 para39]

**Reviewed by ERT (expert review team) (Maximum 16 months)** [CMP/2005/8/Ad2, p19 para3]

**<By the beginning of 2007>** [CMP/2005/8/Ad2, p23 para2]

**Submission of the report for the calculated assigned amount** [CMP/2005/8/Ad2, p25 para 6-8]

**By the beginning of 2007** [CMP/2005/8/Ad2, p23 para2]
22-5. Retirement, carry-over of Kyoto units and the 2nd commitment period

End of the 1st commitment period

| 2012 | 2013 | 2014 | 2015 |

Additional period of the 1st commitment period

- Emissions and removals in 2012 will be calculated and submitted to UNFCCC by **15 April 2014** [Decision 18/CP.8 para2]
- The completion of the expert review process; **100th day after the date decided by CMP** [CMP/2005/8/Ad3, p101 XIII]

Additional period

- Individual inventory review, including adjustment procedures by ERT **within one year** [CMP/2005/8/Ad3, p64 para72-78]
- ERT shall list all the problems identified, indicating which would need an adjustment **within 25 weeks**
- A party shall comment on these questions **within 6 weeks**
- ERT shall prepare a draft individual inventory review report **within 8 weeks**
- A party shall be provided to comment on the draft **within 4 weeks**
- ERT shall prepare a final individual inventory review report **within 4 weeks**

Holding account

- Each Party may carry over Kyoto units held in its registry, that have not been cancelled or retired for a commitment period, to the subsequent commitment period. [CMP/2005/8/Ad2, p30 para36]

National registry

- Retire Kyoto units by transferring Kyoto units to the retirement account **prior to the end of the additional period** [CMP/2005/8/Ad2, p27 para13-14] [CMP/2005/8/Ad2, p30 para34]

Eligibility of Kyoto units during the 2nd commitment period

- Party included in Annex I may continue to participate in ongoing project activities under Article 12 and in any project activities to be registered after 31 December 2012. But only a Party with a QELRO shall be eligible to transfer and acquire CERs. [FCCC/KP/CMP/2012/L.9 para13]
- As of 1 January 2013, only a Party with a commitment shall be eligible to transfer and acquire CERs and AAUs, ERUs and RMUs valid for the second commitment period under Article 17 of the Kyoto Protocol para14 [FCCC/KP/CMP/2012/L.9 para14]
## Methodological Tools for Emission Reduction CDM Project Activities (AM Tools)

<table>
<thead>
<tr>
<th></th>
<th>Tool for the demonstration and assessment of additionality (ver.7) [EB70 Anx8]</th>
<th>This document provides for a step-wise approach to demonstrate and assess additionality. (Att.3)</th>
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</thead>
<tbody>
<tr>
<td>2.</td>
<td>Combined tool to identify the baseline scenario and demonstrate additionality (ver.5) [EB70Anx9]</td>
<td>This tool provides for a step-wise approach to identify the baseline scenario and simultaneously demonstrate additionality.</td>
</tr>
<tr>
<td>3.</td>
<td>Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion (ver.2) [EB41 Anx11]</td>
<td>This tool provides procedures to calculate baseline, project or leakage CO₂ emissions from the combustion of fossil fuels. It can be used in cases where CO₂ emissions from fossil fuel combustion is calculated based on the quantity of fuel combusted and its properties.</td>
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<tr>
<td>4.</td>
<td>Emissions from solid waste disposal sites (ver.6.0.1) [EB66 Anx46]</td>
<td>This tool provides procedures to calculate baseline, project or leakage emissions of methane from solid waste disposed or prevented from disposal at a solid waste disposal sites (SWDS). The amount of methane generated from disposal of waste at the SWDS is calculated based on a first order decay (FOD) model.</td>
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<tr>
<td>5.</td>
<td>Tool to calculate baseline, project and/or leakage emissions from electricity consumption (ver.1) [EB39 Anx7]</td>
<td>The tool may, for example, be used in methodologies where auxiliary electricity is consumed in the project and/or the baseline scenario. The tool can also be applied in situations where electricity is only consumed in the baseline or in the project or as leakage source.</td>
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<tr>
<td>6.</td>
<td>Project emissions from flaring (ver.2) [EB68 Anx15]</td>
<td>This tool provides procedures to calculate project emissions from flaring of a residual gas.</td>
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<td>7.</td>
<td>Tool to calculate the emission factor for an electricity system (ver.3) [EB70 Anx22]</td>
<td>This methodological tool determines the CO₂ emission factor for the displacement of electricity generated by power plants in an electricity system, by calculating the “operating margin” (OM) and “build margin” (BM) as well as the “combined margin” (CM).</td>
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<td>8.</td>
<td>Tool to determine the mass flow of a greenhouse gas in a gaseous stream (ver.2) [EB61 Anx11]</td>
<td>This tool provides procedures to determine the mass flow of a greenhouse gas in a gaseous stream. The tool can be used to determine the mass flow of the following gases: CO₂, CH₄, N₂O, SF₆ and/or PFCs.</td>
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<tr>
<td>9.</td>
<td>Tool to determine the baseline efficiency of thermal or electric energy generation systems (ver.1) [EB48 Anx12]</td>
<td>The tool provides various options to determine the baseline efficiency of an energy generation system with the purpose of estimating baseline emissions.</td>
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<td>10.</td>
<td>Tool to determine the remaining lifetime of equipment (ver.1) [EB50 Anx15]</td>
<td>This tool may, for example, be used for project activities which involve the replacement of existing equipment with new equipment or which retrofit existing equipment as part of energy efficiency improvement activities.</td>
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<td>11.</td>
<td>Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (ver.3.0.1) [EB66 Anx47]</td>
<td>This tool provides a stepwise procedures to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period. The tool consist of 2 steps. The first step provides an approach to evaluate whether the current baseline is still valid for the next crediting period. The second step provides an approach to update the baseline in case that the current baseline is not valid anymore for the next crediting period.</td>
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<td>12.</td>
<td>Project and leakage emissions from road transportation of freight (ver.1.1.0) [EB70 Anx23]</td>
<td>This tool provides procedures to estimate project and/or leakage CO2 emissions from road transportation of freight by vehicles.</td>
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<td>13.</td>
<td>Project and leakage emissions from composting (ver.1) [EB65 Anx9]</td>
<td>This tool provides procedures to calculate project and/or leakage emissions from composting and co-composting. Typical applications of the tool include projects composting municipal solid wastes, agricultural wastes and digestate.</td>
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<td>14.</td>
<td>Project and leakage emissions from anaerobic digesters (ver.1) [EB66 Anx32]</td>
<td>This tool provides procedures to calculate project and leakage emissions associated with anaerobic digestion in an anaerobic digester. The tool is not applicable to other systems where waste may be decomposed anaerobically, for instances stockpiles, SWDS or un-aerated lagoons.</td>
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<td>15.</td>
<td>Upstream leakage emissions associated with fossil fuel use (ver.1) [EB69 Anx12]</td>
<td>This tool provides a procedure to calculate leakage upstream emissions associated with the use of fossil fuels. The tool is applicable to fossil fuel use in either or both the baseline scenario and project activity as well as fossil fuel consumption for leakage emission sources.</td>
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<td>Switch from non-renewable biomass for thermal application by the user</td>
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<td>Avoidance of methane production from decay of biomass through controlled combustion, gasification or mechanical/thermal treatment</td>
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<td>Recovery and utilization of gas from oil wells that would otherwise be flared or vented</td>
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<td>Recovery and utilization of waste gas in refinery</td>
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<td>Methodology for new grid connected power plants using permeate gas previously flared and/or vented</td>
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<td>Flare or vent reduction at coke plants through the conversion of their waste gas into dimethyl ether for use as a fuel</td>
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<td>Waste Energy Recovery (gas/heat/pressure) Projects</td>
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<td>Consolidated baseline methodology for fuel switching from coal and/or petroleum fuels to natural gas in existing power plants for electricity generation</td>
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<td>Natural gas-based package cogeneration</td>
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**Methodological Tools for A/R CDM Project Activities (AR-AM Tools)**

1. Tool for the demonstration and assessment of additionality in A/R CDM project activities (ver.2) [EB35 Anx17]
2. Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities (ver.1) [EB35 Anx19]
3. Calculation of the number of sample plots for measurements within A/R CDM project activities (ver.2.1) [EB58 Anx15]
4. Estimation of GHG emissions related to fossil fuel combustion in A/R CDM project activities (ver.1) [EB33 Anx14]
5. Procedure to determine when accounting of the soil organic carbon pool may be conservatively neglected in CDM A/R project activities (ver.1) [EB33 Anx15]
6. Estimation of direct nitrous oxide emission from nitrogen fertilization (ver.1) [EB33 Anx16]
7. Estimation of non-CO2 GHG emissions resulting from burning of biomass attributable to an A/R CDM project activity (ver.4) [EB65 Anx 31]
8. Tool for calculation of GHG emissions due to leakage from increased use of non-renewable woody biomass attributable to an A/R CDM project activity (ver.1) [EB39 Anx11]
9. Estimation of carbon stocks and change in carbon stocks in dead wood and litter in A/R CDM project activities (ver.2) [EB67 Anx23]
10. Tool for the identification of degraded or degrading lands for consideration in implementing CDM A/R project activities (ver.1) [EB41 Anx15]
11. Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activity (ver.3) [EB70 Anx35]
12. Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity (ver.1) [EB51 Anx15]
13. Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities (ver.1.1) [EB60 Anx12]
14. Demonstrating appropriateness of allometric equations for estimation of aboveground tree biomass in A/R CDM project activities (ver.1) [EB65 Anx28]
15. Demonstrating appropriateness of volume equations for estimation of aboveground tree biomass in A/R CDM project activities (ver.1.0.1) [EB67 Anx24]

There are guidance and guidelines for A/R methodologies. <http://cdm.unfccc.int/Reference/Guidclarif/ar/index_guid.html>
There are also clarifications for A/R methodologies. <http://cdm.unfccc.int/Reference/Guidclarif/ar/index_clarif.html>
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Attachment 2. Guidelines on the consideration of suppressed demand in CDM methodologies

In decision 3/CMP.6, Parties reiterated their encouragement to the Board to “further explore the possibility of including in baseline and monitoring methodologies, as appropriate, a scenario where future anthropogenic emissions by sources are projected to rise above current levels due to specific circumstances of the host Party.”

In decision 8/CMP.7, Parties requested the Board to accelerate the implementation of guidelines on suppressed demand in baselines and monitoring methodologies, prioritizing those that are more applicable to the least developed countries, small island developing States, African countries and countries underrepresented in the clean development mechanism.

Definitions

- **Income effect**: This effect occurs when the demand for a service, such as energy services, would increase in the baseline scenario over time as a result of the increase of the income of the user of the service, even without access to a better quality service.
- **Rebound effect**: This effect occurs when the demand for a service, such as energy services, increases as a result of the decreased cost of the service per unit in the project scenario. For example, the benefits from savings in energy demand due to technical efficiency improvement and hence reductions in greenhouse gas (GHG) emissions may result in an increase in the demand (e.g. extended operating hours in lighting).
- **Minimum service level (MSL)**: A service level that is able to meet basic human needs. In some situations, this service level may not have been provided prior to the implementation of the CDM project activity, indicating suppressed demand with a consequent future emissions increase due to income effect, rebound effect or other technical factors such as limited availability of a service (e.g. connection to a very weak grid) or low quality of a service (e.g. aversion to pollution caused by kerosene lanterns)
- **Basic human needs**: For the purpose of these guidelines, these include physical and physiological needs such as basic housing, basic energy services (including lighting, cooking, drinking water supply and space heating), sanitation (waste treatment/disposal) and transportation.

**Methodological approaches**

**A. Identification of the baseline technology/measure**

1. Identify the various alternative technologies/measures
2. Identify which alternatives identified in Step 1 are in compliance with the local regulations
3. Rank the alternatives remaining after Step 2
4. Assess the alternatives in the sequence identified in Step 3 and eliminate in that sequence those alternatives that face barriers such as the ones listed right
5. The first alternative not eliminated by Step 4 and that is able to meet the minimum service level under realistic conditions is deemed as the baseline technology/measure.

**B. Identification of the baseline service level**

In baseline and monitoring methodologies, the service level used to determine baseline emissions can correspond to the following levels:

(a) The service level provided prior to the implementation of the project activity:
(b) The service level provided under the project activity:
(c) A minimum service level:

1. Income barrier, i.e. inability to meet the capital cost;
2. Lack of infrastructure (e.g. non-existence of supply/service infrastructure);
3. Lack of skills to operate the alternative;
4. Technological barrier, e.g. technologies

**Box1: Example of applied methodologies for scope and applicability**

AMS-I.A, AMS-I.L, AMS-III.AV, AMS-III.F

**C. Determination of the minimum service level**

For establishing a minimum service level the following approached may be used:

(a) National/international peer-reviewed research or relevant studies
(b) Benchmarks that take into account that emissions will rise to achieve the international/national development goals.

Further, in setting the minimum service level, the following should be taken into account:

(a) Environmental integrity of the emission reductions has to be safeguarded;
(b) Climatic zones may be taken into account where feasible;
(c) Normative decisions have to be clearly referenced and explained;
(d) Decisions regarding suppressed demand have to be re-evaluated and updated periodically based on recent data to ensure they are based on realistic assumptions.
Attachment 3. Tool for the demonstration and assessment of additionality

The use of this tool is not mandatory for PPs when proposing new methodologies. PPs may propose alternative methods to demonstrate additionality for consideration by the EB, or submit revisions to approved methodologies (AMs) using this tool. But once this tool is included in an AM, its application by PPs using this methodology is mandatory.

**Step 0. Demonstration whether the proposed project activity is the first-of-its-kind (Optional)**
☞ If the proposed CDM project activity(ies) apply the defined measure(s), the latest version of the “Guidelines on additionality of first-of-its-kind project activities” shall be applied. [EB69 Anx7]
☞ If the proposed CDM project activity(ies) apply other measure(s), the project proponents shall propose approach for demonstrating that a project is a “first-of-its-kind”.

**Step 1. Identification of alternatives to the project activity consistent with current laws and regulations**

**Sub-step 1a. Define alternatives to the project activity:**
☞ Identify realistic and credible alternative scenario(s) available to the PPs or similar project developers that provide outputs or services comparable with the proposed CDM project activity.

**Sub-step 1b. Consistency with mandatory laws and regulations:**
☞ The alternative scenario(s) shall be in compliance with all mandatory applicable legal and regulatory requirements. If an alternative does not comply with all mandatory applicable legislation and regulations, then show that those applicable legal or regulatory requirements are systematically not enforced;
☞ If the proposed project activity is the only alternative amongst the ones considered by the PPs that is in compliance with all mandatory regulations with which there is general compliance, then the proposed CDM project activity is not additional.

**Step 2. Investment analysis** (also see “Guidance on the Assessment of Investment Analysis ver.5” [EB2 Anx5])

Determine whether the proposed project activity is not the most economically or financially attractive, or economically or financially feasible, without the revenue from the sale of CERs.

**Sub-step 2a. Determine appropriate analysis method:**
☞ If the CDM project activity and the alternatives identified in Step 1 generates no financial or economic benefits other than CDM related income, then apply Option I below. Otherwise, use Option II or Option III.

**Sub-step 2b.**

**Option I. Apply simple cost analysis**
☞ Document the costs associated with the CDM project activity and demonstrate that there is at least one alternative which is less costly than the project activity.

**Option II. Apply investment comparison analysis**
☞ Identify the financial indicator, such as IRR, NPV, cost benefit ratio, or unit cost of service most suitable for the project type and decision-making context.

**Option III. Apply benchmark analysis**
☞ Identify the financial/economic indicator, such as IRR. The financial/economic analysis shall be based on parameters that are standard in the market but not linked to the subjective profitability.
☞ Only in the particular case where the project activity can be implemented by the PP, the specific financial/economic situation of the company undertaking the project activity can be considered.

**Sub-step 2c. Calculation and comparison of financial indicators (only applicable to options II and III):**
☞ Present in the F-CDM-PDD a clear comparison of the financial indicator for the proposed CDM activity and:
⇒ (a) The alternatives, if Option II (investment comparison analysis) is used, or (b) the financial benchmark, if Option III (benchmark analysis) is used. If the CDM project activity has a less favourable indicator, then the CDM project activity cannot be considered as financially attractive.

**Sub-step 2d. Sensitivity analysis (only applicable to options II and III):**
☞ Include a sensitivity analysis that shows whether the conclusion is robust to reasonable variations in the critical assumptions.

**Step 2 or Step 3, or both step 2 and step 3**

Pass
**Step 3. Barrier analysis** (also see the “Guidelines for objective demonstration and assessment of barriers” [EB50 Anx13])

Determine whether the proposed project activity faces barriers that prevent the implementation of this type of proposed project activity, and do not prevent the implementation of at least one of the alternatives. Provide transparent and documented evidence, and offer conservative interpretations of this documented evidence, as to how it demonstrates the existence and significance of the identified barriers.

If the CDM does not alleviate the identified barriers that prevent the proposed project activity from occurring, then the project activity is not additional.

**Sub-step 3a. Identify barriers that would prevent the implementation of type of the proposed project activity:**

Ensure that there are realistic and credible barriers that would prevent the implementation of the type of proposed project activity from being carried out if the project activity was not registered as a CDM activity. Such barriers may include, among others, investment barriers other than the economic/financial barriers in Step 2 above, technological barriers and other barriers.

**Sub-step 3b. Show that the identified barriers would not prevent the implementation of at least one of the alternatives (except the proposed project activity):**

If the identified barriers also affect other alternatives, explain how they are affected less strongly than they affect the proposed CDM project activity.

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**Step 4. Common practice analysis**

The above generic additionality tests shall be complemented with an analysis of the extent to which the proposed project type has already diffused in the relevant sector and region. This test is a credibility check to complement the investment analysis (Step 2) or barrier analysis (Step 3).

**Sub-step 4a. The proposed CDM project activity(ies) applies the listed measure(s):**

The latest version of the “Guidelines on common practice” available shall be applied. [EB69 Anx8]

**Sub-step 4b. The proposed CDM project activity(ies) does not apply any of the listed measures:**

Provide an analysis to which extent similar activities to the proposed CDM project activity have been implemented previously or are currently underway. Similar activities are defined as activities that are of similar scale, take place in a comparable environment, inter alia, with respect to the regulatory framework and are undertaken in the applicable geographical area, as defined above. Other CDM project activities are not to be included in this analysis. Provide documented evidence and, where relevant, quantitative information. On the basis of that analysis, describe whether and to which extent similar activities have already diffused in the applicable geographical area.

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The proposed CDM project activity is additional

**Stepwise approach for common practice** [EB69 Anx8]

**Step 1:** Calculate applicable capacity or output range as +/-50%.

**Step 2:** Identify similar projects (both CDM and non-CDM).

**Step 3:** Identify those that are neither registered CDM, request for registration, nor under validation. Note their number N_all.

**Step 4:** Identify those that apply technologies that are different to the technology applied in the proposed activity. Note their number N_diff.

**Step 5:** Calculate factor F = 1 - N_diff/N_all. If the proposed project is a “common practice” if the factor F is greater than 0.2 and N_all - N_diff is greater than 3.
Projects **up to 5 MW** that employ renewable energy technology are **additional** if any one of the conditions below is satisfied:

- Energy efficiency projects that aim to achieve energy savings at a scale of **no more than 20GWh/yr** are additional if any one of the conditions below is satisfied.
- Other projects (i.e. Type III projects) that aim to achieve ERs at a scale of **no more than 20 ktCO2e per year** are additional if any one of the conditions below is satisfied.
- Projects that meet the requirements above are termed ‘Microscale CDM project activities’.

The guidelines are applicable to CPAs under PoAs (EB68 Anx26 para6).

### The project size <=5 MW of installed capacity of renewable energy

Is the geographic location of the project in one of LDCs/SIDs or in a special underdeveloped zone (SUZ) of the host country?

- **Yes**
- **No**

Is the project an off grid activity supplying energy to households/communities? (<12 hrs grid availability per 24 hrs is also considered as “off grid” for this assessment)

- **Yes**
- **No**

Is the project for distributed energy generation (not connected to a national or regional grid) with both condition satisfied?
- **Yes**
- **No**

Does the project employ specific renewable energy technologies/ measures recommended by the host country DNA and approved by the EB? The following conditions shall apply for DNA recommendations:

1. Specific renewable energy technologies/measures. refers to grid connected renewable energy technologies of installed capacity equal to or smaller than 5 MW;
2. The ratio of installed capacity of the specific grid connected renewable energy technology in the total installed grid connected power generation capacity in the host country shall be equal to or less than 3 per cent;
3. Most recent available data on the percentage of contributions of specific renewable energy technologies shall be provided to demonstrate compliance with the 3 per cent threshold. In no case shall data older than three years from the date of submission be used;
4. Technologies/measures recommended by DNAs and approved by the EB to be additional in the host country remain valid for three years from the date of approval. However, additionality of eligible project activities applying the guidelines remains valid for the entire crediting period;
5. DNA submissions shall include the specific grid connected renewable electricity generation technologies that are being recommended and provide the required data as indicated above (e.g. wind power, biomass power, geothermal power, hydropower).

- **Yes**
- **No**

Use other means of additionality demonstration (e.g. Tool for demonstration of additionality (Att. 3), Guidelines on the demonstration of additionality of small-scale project activities (chap.19-2))

**Project is additional**
The project size <=20 GWh energy savings per year
☞ All technologies/measures included in approved Type II SSC methodologies are eligible to be considered.
[Footnote13 of EB68 Anx26 para3]

Is the geographic location of the project in LDCs/SIDs or SUZ of the host?

No

Are the following two conditions satisfied?
☞ Each of the independent subsystem/measure in the project annually saves <=600 MWh;
☞ End users of the subsystem or measure are households/communities/SME

Yes

No

Use other means of additionality demonstration (e.g. Tool for demonstration of additionality (Att.3), Guidelines on the demonstration of additionality of small-scale project activities (chap.19-2)

Project is additional

The project ERs <=20 ktCO2e per year
☞ All technologies/measures included in approved Type III SSC methodologies are currently eligible to be considered, except for AMS-III.V, III.P, III.Q, III.W (Att.2).
[Footnote14 of EB68 Anx26 para4]

Is the geographic location of the project in LDCs/SIDs or SUZ of the host?

No

Are the following two conditions satisfied?
☞ Each of the independent subsystem/measure in the project annually ERs <=600 tCO2e per year;
☞ End users of the subsystem or measure are households/communities/SME

Yes

No

Use other means of additionality demonstration (e.g. Tool for demonstration of additionality (Att.3), Guidelines on the demonstration of additionality of small-scale project activities (chap.19-2)

Project is additional

BOX: Procedure: Submission and consideration of microscale renewable energy technologies for automatic additionality
[EB70 Anx37]
☞ The document contains the process for the submission of proposed specific renewable energy technologies/measures and proposed SUZs by DNAs.

BOX: Special underdeveloped zone (SUZ) [EB68 Anx26]
☞ A region in the host country (zone, municipality or any other designated official administrative unit) identified by the Government in official notifications for development assistance including for planning, management, and investment satisfying any one of the following conditions using most recent available data:
• The proportion of population with income less than USD 2 per day (PPP) in the region is greater than 50%;
• The GNI per capita in the country is less than USD 3000 and the population of the region is among the poorest 20% in the poverty ranking of the host country as per the applicable national policies and procedures;
☞ In cases where, based on the recommendation of the designated national authority of the host country the SUZ in the host country has been approved by Executive Board (hereinafter referred to as the Board) of the clean development mechanism (CDM), the list of such SUZ shall be maintained on the UNFCCC website (e.g. at<http://cdm.unfccc.int/DNA/submissions/index.html>). In the case of these SUZ listed on the CDM website there is no need for the project proponents to provide proof.

BOX: Other guidance on PoA, bundled projects and Eligibility
☞ ‘Project activity’ means a small scale or large scale CDM project activity or a project activity under a PoA (CPA of a PoA). [EB60 Anx25 para6]
☞ In the case of bundled projects, individual projects within the bundle and these guidelines are applied in conjunction with the “Guidelines on assessment of debundling for SSC project activities” (chap. 19-3 Bundling of SSC)
☞ Eligibility as microscale CDM project activities will be determined in accordance with the principle laid out in the “General Guidelines to SSC CDM methodologies” (chap. 19-1 Definition of small-scale CDM)
Attachment 5. Procedure for the submission and consideration of microscale renewable energy technologies for automatic additionality

**DNA**

1. Propose specific renewable technologies/measures to be approved by the EB as conferring automatic additionality on microscale CDM project activities. [EB65 Anx33, para6]

2. Upload to the UNFCCC CDM website the following documentation: [EB65 Anx33, para7]
   - The duly completed Proposed specific renewable technologies/measures submission form (form F-CDM-PRT);
   - The most recent available data, and in any case not older than three years from the date of submission, on the percentage of contributions of specific renewable energy technologies in the total installed grid-connected power generation capacity in the country, clarifying the source of the data;
   - Any additional documentation supporting the submission (e.g. relevant data, documentation, statistics, studies, etc.), where applicable.

3. Undertake initial assessment on whether:
   - The form F-CDM-PRT has been duly completed;
   - The DNA submitted all the information required;

4. Inform the DNA of the outcome of the initial assessment. If the secretariat finds that the required documentation or information is incomplete, it shall notify the DNA. [EB65 Anx33, para10]

5. Provide the missing documents or information within 28 days of the notification. [EB65 Anx33, para10]

6. Conclude the initial assessment within 14 days of receipt of missing documents or information and inform the DNA of the conclusion of the initial assessment. [EB65 Anx33, para11]

7. Make the submitted documentation publicly available on the UNFCCC CDM website with the exception of the information declared confidential and/or proprietary information by the DNA, and invite the public to provide inputs on the submission for a period of 14 days. [EB65 Anx33, para12]

8. Prepare a draft recommendation on the proposed specific renewable technologies/measures, taking into account the public comments received as appropriate, using the form F-CDM-PRT-REC [EB65 Anx33, para13]

9. Appoint two (2) members of the Small-scale Working Group (SSC WG) and forward its draft recommendation, together with public comments received in accordance with paragraph 12 above, to them. [EB65 Anx33, para16]

10. The two appointed members of the SSC WG shall, within seven (7) days of receipt of the draft recommendation, independently assess the proposed specific renewable technologies/measures and the draft recommendation, and inform the secretariat of the outcome of their assessment. [EB65 Anx33, para17]

11. Forward it as the recommendation to the EB and make it publicly available on the UNFCCC website. [EB65 Anx33, para18]

12. Notify the DNA accordingly. [EB65 Anx33, para19]

**UNFCCC secretariat**

**External Experts (DOE, Panels)**

With in 14 days

Include in its draft recommendation one of the following courses of actions: [EB65 Anx33, para14]

- Approve the proposed specific renewable technologies/measures as conferring additionality on microscale CDM project activities;
- Requires further input (e.g. additional information or modification to the submitted documentation) from the DNA;
- Not to approve the proposed specific renewable technologies/measures

Both of the appointed members of the SSC WG agree to the draft recommendation to approve or not to approve the proposed specific renewable technologies/measures

Both of the appointed members of the SSC WG agree to the draft recommendation to require further input from the DNA

Continue to the next page
Attachment 5. Procedure for the submission and consideration of microscale renewable energy technologies for automatic additionality

(13) Submit the requested input within **28 days** of the notification. If the DNA fails to provide the requested input within the deadline, the secretariat shall suspend processing the submission any further until it receives the requested input. [EB65 Anx33, para19]

(14) Revise the draft recommendation to recommend either to approve or not to approve the proposed specific renewable technologies/measures, forward it as the recommendation to the EB, and make it publicly available on the UNFCCC website. [EB65 Anx33, para21]

(15) In its finalization of consideration, the SSC WG shall conclude to recommend either to approve or not to approve the proposed specific renewable technologies/measures. [EB65 Anx33, para23]

(16) Forward it as the recommendation to the EB and make it publicly available on the UNFCCC website. [EB65 Anx33, para23]

(17) Notify the DNA [EB65 Anx33, para24]

Yes

If the SSC WG finds that further input from the DNA is required

No

(18) Submit the requested input within 28 days of the notification DNA [EB65 Anx33, para24]

(19) Revise the draft recommendation to recommend either to approve or not to approve the proposed specific renewable technologies/measures, and forward it as the recommendation to the EB and make it publicly available on the UNFCCC website. [EB65 Anx33, para26]

(20)-1. If no member of the EB objects to the recommendation received, the recommended course of action shall be deemed to be the decision adopted by the EB. [EB65 Anx33, para27]

(20)-2. If a member of the EB objects to the recommendation more than two (2) weeks prior to the next EB, the case shall be placed on the agenda of the next EB meeting [EB65 Anx33, para29]

(21) Inform the DNA of the decision and make the decision and guidance publicly available on the UNFCCC CDM website. [EB65 Anx33, para32]

The approved specific renewable technologies/measures are valid for three (3) years from the date of approval by the EB. [EB65 Anx33, para34]
This methodological tool determines the CO2 emission factor for the displacement of electricity generated by power plants in an electricity system, by calculating the “combined margin” emission factor (CM) of the electricity system.

### Scope and applicability

| EF<sub>grid,OM,y0</sub> | Operating margin (OM) CO2 emission factor for project electricity system in year y | OM refers to the group of existing power plants whose current electricity generation would be affected by the proposed CDM project activity. |
| EF<sub>grid,BM,y</sub> | Build margin (BM) CO2 emission factor for project electricity system in year y | BM refers to the group of prospective power plants whose construction and future operation would be affected by the proposed CDM project activity. |
| EF<sub>grid,CM,y</sub> | Combined margin (CM) CO2 emission factor for project electricity system in year y. | The result of a weighted average of two emission factors pertaining to the electricity system. |

- This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid.
- The emission factor for the project electricity system can be calculated either for grid power plants only or, as an option, can include off-grid power.

### Step 1. Identify the relevant electric power system

**A grid/project electricity system (the reference system)**

The spatial extent of the power plants that are physically connected through transmission and distribution lines to the project activity

**Electricity import**

An electricity system that is connected by transmission lines to the project electricity system.

**Electricity export**

A significant transmission constraint

**BM emission factor calculation:**

The spatial extent is limited to the project electricity system, except where recent or likely future additions to the transmission capacity enable significant increases in imported electricity.

**Options for CO2 emission factor for net electricity imports in OM emission factor calculation:**

(a) 0 t CO2/MWh; (b) The simple operating margin emission rate of the exporting grid, (c) The simple adjusted operating margin emission rate of the exporting grid, or (d) The weighted average operating margin (OM) emission rate of the exporting grid.

### Step 2. Choose whether to include off-grid power plants in the project electricity system (optional)

**Option I:** Only grid power plants are included in the calculation

**Option IIa:** Collecting data on off-grid power generation and can only be used if the conditions outlined therein are met

**Option IIb:** The default CO2 emission factor (0.8 t CO2/MWh) and the default value of the electricity generated by the off-grid power plants (10% of the total electricity generation by grid power plants in the electricity system for OM determination, and 10% of the electricity generation by grid power plants included in the sample group as per Step 5 for BM determination) can be applied for the first crediting, when the following conditions apply:

(a) The project activity is located in (i) LDC; (ii) a SIDS or (iii) a country with less than 10 registered CDM projects at the starting date of validation; and

(b) The project activities consist of grid-connected renewable power generation; and

(c) It can be demonstrated that there is a load shedding program in place to compensate the deficit of the generation capacities.
Step 3. Select a method to determine the operating margin (OM)

Calculation method and data vintage

(a) Simple OM

Calculated as the generation-weighted average CO2 emissions per unit net electricity generation of all generating power plants serving the system, not including low-cost/must-run power plants/units.

(b) Simple adjusted OM

A variation of the simple OM. The power plants/units are separated in low-cost/must-run power sources and other power sources.

(d) Average OM

Calculated as the generation-weighted average CO2 emissions per unit net electricity generation of all generating power plants serving the system, but also including the low-cost/must-run power plants in all equations.

(c) Dispatch data analysis OM

Determined based on the grid power units that are actually dispatched at the margin during each hour where the project is displacing grid electricity.

Applicability of Simple OM method: Low-cost/must-run resources constitute less than 50% of total grid generation (excluding electricity generated by off-grid power plants) in: 1) average of the five most recent years, or 2) based on long-term averages for hydroelectricity production.

Step 4. Calculate the operating margin emission factor according to the selected method

Simple OM (Only one method out of four methods is introduced here)

Option A: Calculation based on average efficiency and electricity generation of each plant

Option A1: Determined based on data of fuel consumption and electricity generation, and the CO2 emission factor and net calorific value of the fuel type used

Option A2: Determined based on the CO2 emission factor of the fuel type used and the efficiency of the power unit

Option A3: An emission factor of 0 t CO2/MWh can be assumed as a simple and conservative approach

Option B: Calculation based on total fuel consumption and electricity generation of the system

Step 5. Calculate the build margin (BM) emission factor

Procedure to determine the sample group of power

1. Identify the 5 most recent power units, excluding CDM
2. Identify the units that comprise at least 20% of the system generation, excluding CDM
3. Select the set of power units that comprises the larger annual generation
4. Is there at least one power unit older than 10 years in the set?
   a. Yes
      i. Use the resulting set to calculate The BM
      ii. Include power units older than 10 years and exclude power units registered in the CDM
      iii. Does the set comprise at least 20% of generation?
         a. Yes
            i. Include power units older than 10 years until the set comprises 20% of generation
         b. No
            i. Exclude power units older than 10 years and include power units registered in the CDM

The BM emissions factor is the generation-weighted average emission factor of all power units during the most recent year y.

Step 6. Calculate the combined margin emissions factor

\[ EF_{grid,CM,y} = EF_{grid,OM,y} \times w_{OM} + EF_{grid,BM,y} \times w_{BM} \]

\[ (w_{OM} + w_{BM} = 1) \]

<table>
<thead>
<tr>
<th>Application</th>
<th>( w_{OM} )</th>
<th>( w_{BM} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind power and solar power</td>
<td>0.75</td>
<td>0.25</td>
</tr>
<tr>
<td>Others for 1st crediting period</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Others for 2nd &amp; 3rd crediting period</td>
<td>0.25</td>
<td>0.75</td>
</tr>
</tbody>
</table>

BOX: Low-cost/must-run resources

Power plants with low marginal generation costs or dispatched independently of the daily or seasonal load of the grid. They include hydro, geothermal, wind, low-cost biomass, nuclear and solar generation. If a fossil fuel plant is dispatched independently of the daily or seasonal load of the grid and if this can be demonstrated based on the publicly available data, it should be considered as a low-cost/must-run.
This framework allows for setting baselines that are not necessarily specific to one type of project activity in a sector, but can be applicable to most of the possible project activities in a sector.

Additionality is not to be demonstrated for each individual project activity ex-post (after its formulation) but rather for types of measures and ex-ante.

**Definitions**

**Level of aggregation**: The level of aggregation measures the extent to which consolidation of information from any parts or units to form a collective whole is undertaken. This consolidation is usually done within a common sector, to provide information at a broader level to that at which detailed observations are taken. Information on categories can be grouped or aggregated to provide a broader picture when this does not lead to misrepresentation. It can also be split or disaggregated when finer details are required by too much non-homogeneity.

**Measure**: a broad class of GHG emission reduction activities possessing common features. 4 types of measures are currently covered in the framework:

(i) Fuel and feedstock switch, (ii) Switch of technology with or without change of energy source (including energy efficiency improvement), (iii) Methane destruction; (iv) Methane formation avoidance.

**Output**: goods or services with comparable quality, properties, and application areas (e.g. clinker, lighting, residential cooking).

**Positive lists**: lists of emission reduction activities that are considered automatically additional under certain conditions (e.g. location, technology / measure, size).

**Sector**: a segment of a national economy that delivers defined output(s) (e.g. clinker manufacturing, domestic / household energy supply). The sector is characterized by the output(s) O_i it generates.

**Steps for establishing standardized baseline**

1. **Identify host country (ies), sectors, output(s) and measures**

2. **Establish additionality criteria for the identified measures**
   - e.g. positive lists of fuels / feedstocks and technologies

3. **Identify the baseline for the measures**
   - e.g. baseline fuel, technology, level of GHG destruction

4. **Determine the baseline emission factor where relevant**

**Thresholds for additionality**

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Energy* sectors</th>
<th>Other sectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xa</td>
<td>80%</td>
<td>90%</td>
</tr>
<tr>
<td>Xb</td>
<td>80%</td>
<td>90%</td>
</tr>
<tr>
<td>Ya</td>
<td>80%</td>
<td>90%</td>
</tr>
<tr>
<td>Yb</td>
<td>80%</td>
<td>90%</td>
</tr>
</tbody>
</table>

**Data vintage**

- Most recent 3 years

**Frequency of updates**

- 3 years

*Energy for household; Energy generation in isolated systems; Agriculture
Decision 9/CM P.7 decided that the scope of materiality under the CDM initially covers the stage of verification by DOEs.

Materiality is an auditing concept to be applied by DOEs in verifications in order to detect errors, omissions or misstatements in emission reductions (ERs) or removals being claimed by PPs in monitoring reports for CDM projects.

Terms and definitions

- **Material information** is a piece of information for which its omission, misstatement or erroneous reporting could change a decision by the EB;
- **Reasonable level of assurance** is a high, but not absolute, level of assurance;

The application of materiality and reasonable level of assurance imply that some data or information may not be checked. However, DOE should design their verification and sampling plans to detect all material errors, omissions, or misstatements, and any unchecked data or information should not contain any material errors, omissions or misstatements.

The decision prescribes the thresholds for the application of materiality in verifications, by defining that information is material if it might lead, at an aggregated level, to an overestimation of the total emission reductions or removals achieved by a CDM project equal to or higher than:

(a) 0.5% of the ERs or removals for project achieving a total ER or removal of equal to or more than 500,000 t-CO2e/y;
(b) 1% of the ERs or removals for project achieving a total ER or removal between 300,000 and 500,000 t-CO2e/y;
(c) 2% of the ERs or removals for large-scale project achieving a total ER or removal of 300,000 t-CO2e/y or less;
(d) 5% of the ERs or removals for small-scale project other than project covered under subparagraph (e) below;
(e) 10% of the ERs or removals for the type of project referred to in decision 3/CMP.6, paragraph 38 (referred to as microscale project activities)
Global warming potential (GWP) is a measure of the relative radioactive effect of GHGs compared to CO₂. GWP used by Parties should be those provided by the IPCC 2nd Assessment Report (“1995 IPCC GWP values”) based on the effects of the GHGs over a 100-year time horizon [CP/1997/7/Add.1, p31 para3]. The value of GWP is fixed for the 1st commitment period, but it is subject to change for the subsequent commitment periods depending on new scientific findings.

All emission reductions and removals achieved by CDM project and PoAs in the second commitment period of the Kyoto Protocol shall be calculated using the GWPs adopted by the CMP, in accordance with decision 4/CMP.7. This requirement shall apply from 1 January 2013. [EB69 Anx3 para2]

PDDs for project activities and PoA-DDs for PoAs registered before 1 January 2013 are not required to be amended, re-published for global stakeholder consultation, or re-validated. [EB69 Anx3 para5]

Carbon Emission Factor (CEF) is the estimated average carbon (or CO₂) emission rate for a given source, relative to units of activity. The EB agreed that the IPCC default values should be used only when country or project specific data are not available or difficult to obtain [EB25 Rep, para59]. The EB further clarified that the ‘2006 IPCC Guidelines for National Greenhouse Gas Inventories’ was published on the IPCC website on 24 October 2006 after which this version shall be considered as the latest version. [EB28 Rep, para68]

### Global Warming Potential

<table>
<thead>
<tr>
<th>Species</th>
<th>Chemical formula</th>
<th>GWP</th>
<th>Species</th>
<th>Chemical formula</th>
<th>GWP</th>
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<tbody>
<tr>
<td>CO₂</td>
<td>CO₂</td>
<td>1</td>
<td>HFC-23</td>
<td>CHF₃</td>
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<tr>
<td>Methane *</td>
<td>CH₄</td>
<td>25</td>
<td>HFC-236fa</td>
<td>C₃H₂F₆</td>
<td>6,300</td>
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<tr>
<td>Nitrous oxide</td>
<td>N₂O</td>
<td>310</td>
<td>HFC-143a</td>
<td>C₂H₃F₃</td>
<td>3,800</td>
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<tr>
<td>Perfluoroethane</td>
<td>C₂F₆</td>
<td>9,200</td>
<td>HFC-134a</td>
<td>CH₂FCF₃</td>
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<td>Perfluoropentane</td>
<td>C₃F₁₂</td>
<td>7,500</td>
<td>HFC-134</td>
<td>C₂H₄F₄</td>
<td>1,000</td>
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<tr>
<td>Perfluorohexane</td>
<td>C₆F₁₄</td>
<td>7,400</td>
<td>HFC-32</td>
<td>CH₂F₂</td>
<td>650</td>
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<td>Sulphur hexafluoride</td>
<td>SF₆</td>
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<td>HFC-41</td>
<td>CH₃F</td>
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<td>Nitrogen trifluoride</td>
<td>NF₃</td>
<td>17,200</td>
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Revision of the UNFCCC reporting guidelines on annual inventories for Parties included in Annex I to the Convention [FCCC/CP/2011/9/Add.2]

### Carbon Emission Factor

#### Fossil fuel

<table>
<thead>
<tr>
<th>Fossil fuel</th>
<th>CO₂ emission factor (kg/TJ)</th>
<th>Net caloric value (TJ/Gg) Gg=1000t</th>
<th>CO₂ emission factor (t-CO₂/t (Fuel))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crude Oil</td>
<td>73,300</td>
<td>42.3</td>
<td>3.101</td>
</tr>
<tr>
<td>Motor Gasoline</td>
<td>69,300</td>
<td>44.3</td>
<td>3.070</td>
</tr>
<tr>
<td>Other Kerosene</td>
<td>71,900</td>
<td>43.8</td>
<td>3.149</td>
</tr>
<tr>
<td>Gas/Diesel Oil</td>
<td>74,100</td>
<td>43.0</td>
<td>3.186</td>
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<tr>
<td>Liquefied Petroleum Gases</td>
<td>63,100</td>
<td>47.3</td>
<td>2.985</td>
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#### Solid Fossil

<table>
<thead>
<tr>
<th>Solid Fossil</th>
<th>CO₂ emission factor (kg/TJ)</th>
<th>Net caloric value (TJ/Gg) Gg=1000t</th>
<th>CO₂ emission factor (t-CO₂/t (Fuel))</th>
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<tbody>
<tr>
<td>Anthracite</td>
<td>98,300</td>
<td>26.7</td>
<td>2.625</td>
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<tr>
<td>Sub-Bituminous Coal</td>
<td>96,100</td>
<td>18.9</td>
<td>1.816</td>
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<tr>
<td>Lignite</td>
<td>101,000</td>
<td>11.9</td>
<td>1.202</td>
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#### Gaseous Fossil

<table>
<thead>
<tr>
<th>Gaseous Fossil</th>
<th>CO₂ emission factor (kg/TJ)</th>
<th>Net caloric value (TJ/Gg) Gg=1000t</th>
<th>CO₂ emission factor (t-CO₂/t (Fuel))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>56,100</td>
<td>48.0</td>
<td>2.693</td>
</tr>
</tbody>
</table>


[Default carbon oxidation factor is 1] [CO₂ emission factors t-CO₂/t (Fuel) are calculated for this document and do not appear in the IPCC guideline]
### Glossary

Examples of abbreviated titles used in this document and corresponding formal document symbols and titles

<table>
<thead>
<tr>
<th>Examples of abbreviated titles used in this charts, shown in [ ]</th>
<th>Corresponding formal document symbols and titles</th>
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<tbody>
<tr>
<td>KP Art.2 para1(a)</td>
<td>The Kyoto Protocol, Article 2, paragraph 1(a)</td>
</tr>
<tr>
<td>CP/2001/13/Add.2, p1 para2(a)</td>
<td>FCCC/CP/2001/13/Add.2, page 1 paragraph 2(a)</td>
</tr>
<tr>
<td>CMP/2005/8/Add.1, p1 para2(a)</td>
<td>FCCC/KP/CMP/2005/8/Add.1, page 1 paragraph 2(a)</td>
</tr>
<tr>
<td>EB01 Rep, para1(a)</td>
<td>Executive Board of the Clean Development Mechanism, 1st Meeting Report, paragraph 1(a)</td>
</tr>
<tr>
<td>EB01 Anx1, para1(a)</td>
<td>Executive Board of the Clean Development Mechanism, Annex 1 to the 1st Meeting Report, paragraph 1(a)</td>
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<tr>
<td>PDD GL ver.7, p1</td>
<td>Guidelines for Completing the Project Design Document (CDM-PDD), and the Proposed New Baseline and Monitoring Methodologies (CDM-NM) Version 7, page 1 (ver.7 was published on 2 August 2008)</td>
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<tr>
<td>SSC GL ver.5, p1</td>
<td>Guidelines for Completing CDM-SSC-PDD, F-CDM-SSC-Subm and F-CDM-SSC-BUNDLE, Version 05, page 1 (Ver.5 was published on 14 September 2007)</td>
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<td>Glos ver.7, p1</td>
<td>Glossary of CDM terms Version 07, page 1 (ver.7 was published on 23 November 2012)</td>
</tr>
<tr>
<td>PCP ver.3.2, para1</td>
<td>Clean development mechanism project cycle procedure Version 03.2, paragraph 1</td>
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<tr>
<td>PS ver.3, para1</td>
<td>Clean development mechanism project standard Version 03, paragraph 1</td>
</tr>
<tr>
<td>VVS ver.3, para1</td>
<td>Clean development mechanism validation and verification standard Version 03, paragraph 1</td>
</tr>
</tbody>
</table>

Anx stands for Annex, Apx for Appendix, Att for Attachment, and Ann for Annotation.


CDM A/R M&P means Modalities and Procedures for Afforestation and Reforestation project activities under the CDM (Annex to Decision 19/CP.9) (FCCC/CP/2003/6/Add.2, p16-27)