



## CLEAN DEVELOPMENT MECHANISM EXECUTIVE BOARD

### PROPOSED AGENDA AND ANNOTATIONS

Forty-seventh meeting

UNFCCC  
Bonn, Germany  
26 – 28 May 2009

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**Please also refer to the following documents from previous meetings:**

Annex 2 of the annotations of the forty-first meeting of the Board – “Draft guidance on common practice analysis”

Annex 1 of the annotations of the forty-third meeting of the Board – “Enhanced barrier test – Consolidation of public comments”

Annex 2 of the annotations of the forty-third meeting of the Board – “Enhanced barrier test – Assessment of approved methodologies and registered project activities”

\* This revision was issued to (a) revise paragraph 41 and (b) include six unsolicited submissions erroneously missed out in the previous version.



PROPOSED AGENDA

1. Membership issues (including disclosure of possible conflict of interest)
2. Adoption of the agenda
3. Work plan:
  - (a) Accreditation of operational entities
  - (b) Methodologies for baselines and monitoring plans
  - (c) Issues relating to CDM afforestation and reforestation project activities
  - (d) Issues relating to small-scale CDM project activities
  - (e) Matters relating to programme of activities
  - (f) Matters relating to the registration of CDM project activities \*
  - (g) Matters relating to the issuance of certified emission reductions and the CDM registry \*\*
4. Management plan and resources for the work on the CDM
5. Other matters
6. Conclusion of the meeting

\*\*For more information please visit the page CDM Project activities “under review” and "review requested" of the UNFCCC CDM website ([http://cdm.unfccc.int/Projects/under\\_review.html](http://cdm.unfccc.int/Projects/under_review.html) and <http://cdm.unfccc.int/Projects/review.html>).

\*\*\*For more information please visit the “issuance of CERs” section of the UNFCCC CDM website (<http://cdm.unfccc.int/Issuance>).



## II. ANNOTATIONS TO THE PROPOSED AGENDA

### 1. Membership issues (including disclosure of possible conflict of interest)

1. ► **Action:** The Chair shall ascertain whether (a) the members present constitute a quorum, and (b) the absence of any member or alternate member is “without proper justification”<sup>1</sup>.

The Board may wish to consider information provided by any member and alternate member, including with respect to any potential conflict of interest, and take action, as appropriate.

*Background:* The Chair shall request, at the beginning of each meeting of the CDM Executive Board, members and alternates to disclose whether they have any conflict of interest relating to the work of the Board.

### 2. Adoption of the agenda

2. ► **Action:** Members may wish to adopt the proposed agenda for the forty-seventh meeting.

*Background:* At its last meeting, the Board agreed on items to be included in the provisional agenda for its forty-seventh meeting. In accordance with rule 21 of the rules of procedure of the Board, subsequent additions or changes to the provisional agenda by members and/or alternate members were to be incorporated in the proposed agenda. The proposed agenda was transmitted to the Board on 5 May 2009 and thereafter posted on the UNFCCC CDM website.

### 3. Work plan

#### (a) Accreditation of operational entities

3. ► **Action:** The Board may wish to take note of the thirty-first progress report on the work of the CDM Accreditation Panel (CDM-AP) and an oral report by its Chair, Mr. Martin Hession, on the work of the CDM-AP.

*Background:* The CDM-AP held its forty-first meeting on 29 April - 01 May 2009.

#### *Case specific*

4. ► **Action:** The Board may wish to accredit and to provisionally designate entities for sector specific validation and/or verification/certification functions.

*Background:* In accordance with the accreditation procedure, the recommendations for phased accreditation and the supporting documentation are confidential and have been sent under separate cover on 12 May 2009.

#### *General guidance*

5. ► **Action:** The Board may wish to consider an update by the secretariat on the various activities agreed in reference to the implementation of the Validation and Verification Manual (CDM-VVM).

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<sup>1</sup> Please refer to rules 28 and 7 of the rules of procedures of the Executive Board.



*Background:* At its forty-fifth meeting, the Board, by considering ways and means to raise the awareness and assist in the implementation of the Validation and Verification Manual (CDM-VVM), agreed to undertake, inter alia, the several activities in the implementation of the Validation and Verification Manual (CDM-VVM) such as (a) hold three workshops to raise awareness and providing opportunities for sharing of experiences among AEs/DOEs; and (b) request the secretariat to establish a web-based communication facility for AEs/DOEs to provide their views, feedback and experiences with regard to application of requirements of the CDM-VVM in their validation and verification functions. The Board further requested the secretariat subject to cost implications, to explore other possibilities for wider dissemination of the CDM-VVM.

6. ► **Action:** The Board may wish to consider an update by the secretariat on the analysis of the performance of entities.

*Background:* At its last meeting, the Board took note of the analysis undertaken by the secretariat on the performance assessment of DOEs and requested the secretariat to provide an update of these at its next meeting.

7. ► **Action:** The Board may wish to consider the shortlist of experts prepared by the secretariat with a view to appoint members of the Accreditation Panel, taking fully into account the consideration of regional balance.

*Background:* At its forty-fifth meeting, the Board agreed to open a call for experts in order to replace the outgoing members of the Accreditation Panel with a view to prepare a shortlist of experts for consideration by the Board at its forty-seventh meeting.

8. **Note:** The Board may wish to take note that the forty-second meeting of the CDM-AP will be held from 29 June - 01 July 2009, as per annex 66 of the forty-sixth meeting of the Board.

**(b) Methodologies for baselines and monitoring plans**

9. ► **Action:** The Board may wish to take note of the report of the thirty-eight meeting<sup>2</sup> of the Methodologies Panel on baseline and monitoring methodologies (the panel), and an oral report by the Chair of the panel, Mr. Philip Gwage, on the work of the panel.

*Background:* The panel held its thirty-eight meeting from 4–8 May, 2009 in Bonn, Germany and undertook its work in two parallel groups. The panel dealt with case-specific issues, methodological clarifications, guidance and other issues, as specified below.

***Case specific***

10. ► **Action:** Taking into consideration the inputs by experts (desk reviewers), the public, and the recommendations of the panel, the Board may wish to:

(a) Approve methodologies based on the cases NM0250, NM0265, NM0278 and NM0292, as contained in annexes 1,2,3 and 4 of the panel report (see MP38 report);

(b) Not to approve cases NM0284 and NM0286 that, if revised taking into account comments, can be resubmitted but will require new expert and public input.

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<sup>2</sup> The report and annexes of thirty eighth meeting of Meth Panel will be available on the CDM website by Thursday, 14 May 2009.



- (c) Provide guidance on the issue of permanence. A note prepared by the panel on the issue of permanence in relation to the cases NM0267 and NM0297 is contained in annex 2 of the previous Panel meeting report (see MP37 report).

*Background:* Information on methodologies currently under consideration by the Board and the panel are available on the UNFCCC CDM website<sup>3</sup>.

The panel could not conclude its consideration of the cases NM0258, NM0266, NM0269, NM0272, NM0280, NM0282, NM0288, NM0293, NM0294 and NM0295. It will further consider these cases at its next meetings.

### *Responses to requests for clarification*

11. **► Action:** The Board may wish to take note of the responses to the requests for clarification AM\_CLA\_0141, AM\_CLA\_0142, AM\_CLA\_0143, AM\_CLA\_0144, AM\_CLA\_0145, AM\_CLA\_0146, and AM\_CLA\_0147, as provided by the panel and referred to in the panel report (see table of MP38 report).

*Background:* Information on the clarifications to methodologies is available on the UNFCCC CDM website (<<http://cdm.unfccc.int/goto/MPclar>>).

The panel could not finalize its response to the request for clarification AM\_CLA\_0084 and will further consider this request at its next meeting.

### *Responses to requests for revision*

12. **► Action:** The Board may wish to agree to the following responses to the requests for revision, as referred to in the panel report (see table of MP38 report):

- (a) Not to accept request AM\_REV\_0108 concerning revision of the approved methodology AM0028 to make it applicable to new nitric acid production capacities, which have been installed and are commercially operational on the day when requesting the registration of a project activity under the CDM.
- (b) Not to accept request AM\_REV\_0115 concerning revision of the approved methodology AM0028 to broaden its applicability to include the case in which the exiting Nitric Acid plant was relocated without changing the underlying concept of the methodology.
- (c) Not to accept request AM\_REV\_0116 concerning revision of the approved methodology AM0034 to include Nitric Acid plants that were already approved by the government for construction by the cut off date of 31 December 2005.
- (d) Not to accept request AM\_REV\_0138 concerning revision of the approved methodology AM0058 to expand the applicability of this methodology to project activities that recover waste heat from the incineration of municipal solid waste (MSW), to be used in a primary district heating system; and introduce a new cogeneration plant to supply heat to the primary district heating system.
- (e) Not to accept request AM\_REV\_0139 concerning revision of the approved methodology ACM0014 aims at correcting one of the equations of the Methane Conversion Factor (MCF) method used in ACM0014, to make it consistent with the other methods and with physical principles of COD degradation to methane, as described in AM0013.

<sup>3</sup> See <<http://cdm.unfccc.int/goto/MPappmeth>>.



- (f) Not to accept request AM\_REV\_0140 concerning revision of the approved methodology AM0062 to extend the applicability of the methodology for the project activities that implement heat extraction technology in turbine to supply the recovered heat to the district heating network, along with the retrofit in steam turbine to improve its efficiency.
- (g) To accept request AM\_REV\_0143 and AM\_REV\_0144 concerning revision of the approved methodology ACM0002 respectively; to expand the applicability of methodology to include refurbishment/replacement of operational units and corresponding calculation of baseline emissions; and to include refurbishment/replacement of facilities affected by negative long term alterations.
- (h) Not to accept request AM\_REV\_0148 concerning revision of the approved methodology AM0060 with regard to modification of procedure for accounting of leakage of emissions from physical leakage of the initial charge of refrigerant in the new chiller.

*Background:* Information on the revisions to methodologies is available on the UNFCCC CDM website (<<http://cdm.unfccc.int/goto/MPprev>>).

The panel could not finalize its responses to the requests for revision AM\_REV\_0071, AM\_REV\_0110, AM\_REV\_0125, AM\_REV\_0126, AM\_REV\_0141, AM\_REV\_0142, AM\_REV\_0145, AM\_REV\_0146, and AM\_REV\_0147, and will further consider these requests at its next meetings. The request for revision AM\_REV\_0088 concerning the revision of AM0021 has been withdrawn.

### *Revisions to approved methodologies*

13. **Action:** The Board may wish to approve revisions to the following approved methodologies:
- (a) **AM0058:** The draft revision (i) includes editorial changes to improve the clarity of the project activity definition, i.e., to implement a primary district heating system that uses heat extracted from an existing power plant; and (ii) addresses an issue related to potential leakage emissions when the electricity fed to the grid, by the existing power plant, is significantly lower under the project than under the baseline. The draft revision is contained in annex 5 of the panel report (see MP38 report).
- (b) **AM0078:** The draft revision includes the clarification of the applicability of the approved methodology AM0078 to allow any kind of combustion or thermal destruction equipment as long as their use do not generate other greenhouse gases, including non-Kyoto gases; the revision also includes editorial changes in the Data and parameters not monitored section. The draft revision is contained in annex 6 of the panel report (see MP38 report).
- (c) **ACM0001:** The draft revision is to allow only the option of continuous measurement of methane content of the landfill gas. Further, definition of "continuous monitoring system" was added to the methodology. The draft revision is contained in annex 7 of the panel report (see MP38 report)..
- (d) **ACM0002:** The draft revision expands the applicability of the methodology to project activities that retrofit or replace renewable energy power generation units, to restore the installed power generation capacity to or above its original level. This revision includes (i) the required provisions in the (a) definitions, (b) baseline identification, (c) baseline emissions sections, in order to allow these types of project activities, and, (ii) editorial changes in the project emissions section in order to improve the overall clarity of the approved methodology. The draft revision is contained in annex 8 of the panel report (see MP38 report).



(e) **ACM0009:** The draft editorial revision includes the procedure to determine the baseline emission factor in case start-up fuel is used in the fuel-mix of baseline fuels. The revised procedure excludes the start-up fuel from the list of multiple fuels being used in the baseline scenario to calculate baseline emission factor and the baseline net calorific value. The draft revision is contained in annex 9 of the panel report (see MP38 report).

(f) **ACM0014:** The draft editorial revision corrects parameters and units in equation 15, 16 and 17. The draft revision is contained in annex 10 of the panel report (see MP38 report).

*Background:* Information on the revisions to methodologies is available on the UNFCCC CDM website (<<http://cdm.unfccc.int/goto/MPprev>>).

The revision to AM0058 was made based on issues identified by the Meth Panel on the version 2 of the methodology. The revision to AM0078 was made in response to request for clarification AM\_CLA\_0145. The revision to ACM0001 was made in response to the EB45 request arising from a request for issuance. The revision to ACM0002 was made in response to the requests for revision AM\_REV\_0143 and AM\_REV\_0144. The editorial revision to ACM0009 was made in response to EB46 request arising from a request for deviation. The editorial revision to ACM0014 was made on the basis of a quality check by the secretariat.

### **General guidance**

14. **► Action:** The Board may wish to agree on next steps with regard to the guidance on the barrier “first-of-its-kind”.

*Background:* The Board, at its thirty-eighth meeting, considered the analysis of the application of the common practice test in demonstrating additionality to a sample of project activities and requested the panel to work on providing a definition of the “first-of-its-kind” project activity. In accordance with this request, the panel prepared draft guidance containing the following main issues:

- (a) The definition of the technologies that are eligible to use the barrier “first-of-its-kind” and the definition of what is regarded as a similar technology or project activity.
- (b) The definition of the number of similar project activities that may have already been implemented in the past, to still regard the project activity as “first-of-its-kind”.
- (c) The definition of the geographical area to be used when assessing the number of similar project activities that have already been implemented.

Due to the time constraints the Board did not consider this issue at its last meetings and agreed to postpone the consideration to its forty-seventh meeting.

15. **► Action:** The Board may wish to agree on next steps with regard to the guidance on common practice analysis.

*Background:* The Board in its fortieth meeting considered the draft guidance on common practice analysis prepared by the secretariat and agreed to further discuss the draft guidance at its forty-first meeting. Due to the time constraints the Board did not consider this issue at its last meetings and agreed to postpone the consideration to its forty-seventh meeting.

16. **► Action:** The Board may wish to consider (a) the input received as a response to the call for inputs on the proposal for the enhanced barrier test, as contained in annex 1 to the annotations of the forty-third meeting, along with (b) an assessment prepared by the secretariat of approved methodologies and registered



project activities with a view to assessing the extent of project activity types covered by the applicability of the proposed guidance, as contained in annex 2 to the annotations of the forty-third meeting.

*Background:* The Board, at its forty-first meeting, considered draft proposal by the Meth Panel on the enhanced barrier test for project activities that have a potential for high profitability without CER revenues. The Board requested the secretariat to undertake an assessment of approved methodologies and registered project activities with a view to assessing the extent of project activity types covered by the applicability of the proposed guidance. Further, the assessment will be used to develop criteria for profitability of project activities and the list of other project activity types to which this guidance should be applicable. The Board requested the Small-Scale Working Group to assess the potential relevance of this issue for small-scale project activities. The Board further agreed to launch a call for public comments on the proposal for the enhanced barrier test. The Board requested the secretariat to compile the inputs and present them along with the above assessment for consideration by the Board at its forty-third meeting. Due to the time constraints the Board did not consider this issue at its last meetings and agreed to postpone the consideration to its forty-seventh meeting.

17. ► **Action:** The Board may wish to provide guidance on an accurate plant load factor for wind power project activities applying ACM0002 taking into account the variability of the wind parameters and gaps of data. The Board may wish to consider the following three options, as presented in paragraph 37 of the panel report (see MP35 report):

- (a) The DOE should validate that the estimate in the CDM-PDD on the annual electricity generation is consistent with the estimate provided to banks and/or equity financiers while applying for project financing, or to the government while applying for implementation approval;
- (b) The expected annual electricity generation of the project should be determined by a third party contracted by the project participants (e.g. an engineering company);
- (c) If decided by the Board, the VVM may include a section on how to validate annual electricity generation estimates. The panel could elaborate such guidance in collaboration with the secretariat and possibly drawing on expertise from external consultants and submit for the Board's approval.

*Background:* The Board at its thirty-ninth meeting requested the panel to review the approved consolidated methodology ACM0002 to arrive at an accurate plant load factor taking into account the variability of the wind parameters and gaps of data. This request was raised in relation with the consideration of requests for issuance under project activities where the quantity of electricity actually generated by the wind turbine was higher than the estimated electricity generation in the registered CDM-PDD. After considering the case, the panel developed the above three options for consideration by the Board. Due to the time constraints the Board did not consider this issue at its forty-fourth meeting and agreed to postpone the consideration to its forty-fifth meeting. Due to the time constraints the Board did not consider this issue at its forty-sixth meeting and agreed to postpone the consideration to its forty-seventh meeting.

18. ► **Action:** The Board may wish to approve the “Tool to determine the mass flow of a greenhouse gas in a gaseous stream” as contained in annex 11 to the MP38 report. The mass flow of a particular greenhouse gas is calculated based on the measurements of (i) the total volume or mass flow of the gas stream and (ii) the volumetric fraction of the gas in the gas stream. The volume flow, mass flow and volumetric fraction may be measured on a dry basis or wet basis. The tool covers most possible measurement combinations, providing eight different options to determine the mass flow of a particular gas. Typical applications of this tool are methodologies where the flow and composition of residual or flared gases or exhaust gases are measured for the determination of baseline or project emissions. Once the tool is approved, the Board may wish to revise relevant approved methodologies with the view to incorporating the use of the new tool.





*Background:* The Meth Panel at its thirty-fourth meeting decided to work on the development of a tool for the determination of moisture content of gas mixtures and conversion of parameters (flow and composition) from dry to wet basis and vice versa. The panel at its subsequent meetings worked further to expand its scope to include the calculation of greenhouse gas emissions, once the moisture is determined.

19. **Action:** Following the request by CMP (paragraph 35 of decision to 2/CMP.4), the Board may wish to consider a preliminary analysis of methodologies which have no / low use in the project activities that the secretariat has conducted. This table is enclosed as annex 1 to these annotations. The secretariat has contacted the project proponents, who have developed the methodologies, however not used their approved versions for their own project activities. The secretariat will present the analysis based on responses received from the project proponents for the consideration of the Board's forty-eighth meeting, together with an analysis of the effort done by the project participants to develop and the Panel/Working Group to consider these methodologies (in terms of time spent).

20. **Action:** The Board may wish to consider the inputs submitted for the call for public inputs on "Tool to determine the baseline efficiency of thermal or electric energy generation systems", launched between the period starting 18 February 2009 and ending 31 March 2009, based on the decision taken by the forty-fifth meeting of the Board. This tool is contained in annex 12 to the report of the thirty-sixth meeting of the panel (see paragraph 40 of MP36 report).

*Background:* In order to standardize the procedures currently contained in different approved methodologies, the panel decided to develop a tool for the estimation of efficiency for baseline equipment. The tool provides various options to determine the baseline efficiency of an energy generation system with the purpose of estimating baseline emissions.

21. **Action:** The Board may wish to consider (a) the draft terms of reference to assess the implications of the possible inclusion of Carbon Capture and Storage (CCS) in geological formations as CDM project activities prepared by the groups of members; (b) the draft document on the criteria for the selection of the CCS experts; (c) the draft document on the process for the selection of the CCS experts; (d) the list of experts that have applied to the call for experts on CCS launched by the Board on these draft terms of reference; and (e) the short listed experts.

*Background:* At its last meeting, the Board, in accordance with the request by the CMP to assess the implications of the possible inclusion of CCS in geological formations as CDM project activities taking into account technical, methodological and legal issues, and report back to CMP5 (2/CMP.4, paragraph 41), took note of the progress of work done in developing draft terms of reference (ToR) to assess the implications of the possible inclusion of CCS in geological formations as CDM project activities and requested a group of members to continue to work on the draft ToR, in order to finalize it as soon as possible. The Board also agreed to launch a call for experts with suitable experience in CCS in geological formations, with in particular technical, methodological and legal experience for assessing the implications of the possible inclusion of CCS in geological formations as CDM project activities as requested by Decision 2/CMP.4 paragraph 41, starting on 27 March 2009 and ending on 4 May 2009. Applicants will be considered by the Board at its forty-seventh meeting.

22. **Action:** The Board may wish to provide guidance in relation to one request for deviation submitted by DOEs prior to registration/validation.



*Background:* One request for deviation has been submitted by a DOE to the Board since its last meeting for consideration by the Board at its forty-sixth meeting.

23. *Note:* The Board may wish to take note that the panel discussed the EB45 request to the panel to consider providing guidance on how value of loss of ignition (LOI) in the baseline for projects applying AM0033 (AM0033 was withdrawn and merged in ACM0015), which requires access to confidential information from competitors, should be validated or whether default values could be applied. The Meth Panel considered this request and concluded that (a) such value is highly dependent on the regional conditions where the project is implemented (b) it would not be possible to provide default regional values for such parameter due to unavailability of data that can be used for such purposes. The Panel is of the view that the only possibility where such methodology could be applied to Greenfield projects is when project participants have access to regional data that can be used to determine the Loss of Ignition which represents actual conditions in the region where the project is implemented. Such data should be made available to the DOEs to allow for proper validation. In case LOI is determined through lab analysis, the DOE should check the following: (i) credibility of the lab where analysis were conducted, (ii) standards used in the analysis and its adequacy for determination of LOI (iii) capacity of the lab to conduct the analysis using the properly identified standards and (iv) comparability of the obtained values for LOI with regional/global values for clinker production lines using comparable raw materials.

24. *Note:* The Board may wish to take note that the panel could not conclude its discussions on the EB46 request related to AM0034 arising from an editorial revision in the methodology. The panel at its thirty-seventh meeting editorially revised the methodology AM0034 to change the title of annex 1 to remove inconsistency in the methodology regarding application of standard EN14181 for Automated Measurement System (AMS). At the forty-sixth meeting the Board discussed the above and requested Meth Panel to remove any language from the methodology which makes the application of one standard mandatory. Similarly, the Board has asked panel to investigate the same in other methodologies and make necessary amendments. The panel intends to conclude its discussions on this request in the next meeting.

25. *Note:* The Board may wish to take note that the panel did not discuss the revision to AM0047 as expert inputs on the issues relating to emission factors from changes in soil carbon stocks following a land use change or a change in management of the land were not available by the thirty-eighth meeting of the Meth Panel. The panel intends to continue its consideration of this case once the required expert inputs become available.

26. *Note:* Further to the revision of ACM0001 after considering EB45 request, the Board may wish to take note that the intention of allowing periodical measurements in ACM0001 was to allow for more flexibility in the implementation of the monitoring plans. However, after evaluating monitored data for several registered projects, it was concluded that the periodical measurements options could lead to overestimation of the methane content of the landfill gas, as the project proponents might intentionally select the four quarterly measurements with highest value of methane content. Even if it is allowed to increase the minimum number of periodical measurements, the possibility of intentional selection of highest value of CH<sub>4</sub> concentration still exists, which leads to the same effect. The panel also requested the Board to take note that the cost of instruments needed to continuously monitor the methane content is not significant, compared with the amount of emission reductions involved in landfill gas recovery projects. Hence, the panel restricted the applicability of approved methodology to only allow the option of continuous measurement of methane content of the landfill gas.

27. *Note:* The Board may wish to take note that the panel has received the request from the Board to prepare a revised version of ACM0005 addressing the issue of barrier analysis. The panel has requested some information from the secretariat to be able to analyze the request and consequently provide a revised version of this methodology for the consideration of the Board at its fiftieth meeting.



28. **Note:** The Board may wish to take note that the panel continued its work on the overall revision of ACM0006. The panel will further report on this issue as progress is made.
29. **Note:** The Board may wish to take note that the panel discussed the EB46 request related to ACM0006 arising from a request for deviation on issuance for a project activity applying scenario 12 of ACM0006. The Panel noted that the underlying plant is operating for less than one year prior to the implementation of the project activity and does not have three years of historical data to determine the baseline electricity generation, as required by the methodology for this scenario. In such situations, several issues arise, such as; it may be difficult to quantify the baseline electricity generation in a reliable manner; and to assess whether the decision to implement the project activity was not already taken when the plant was constructed. The panel assessed the proposed approach to determine the baseline electricity generation and considered the approach as conservative in the context of the proposed project activity. However, the panel recommends using this approach only as an exception.
30. **Note:** Further to the revision of ACM0009 after considering EB46 request, the Board may wish to take note that in addition to this revision, the panel considered the possibility of using the weighted average emission factor of the multi-fuel for the baseline. The panel intends to obtain more input on how fuel shift decisions are made in a multi-fuel fired facility, especially the impact of relative fuel prices of the component fuel on such decisions. The panel intends to conclude its consideration of the case once the expert input is available.
31. **Note:** The Board may wish to take note that the panel further considered the development of methodological approaches to estimate emission reductions for grid-connected power plants that partially or fully displace off-grid generation capacity. The panel decided to revise the “Tool to calculate the emission factor for an electricity system” to incorporate the methodological procedures to include off-grid power plants in the calculation of the emission factor. The first draft revision of the tool was considered but the panel was not able to conclude on a final recommendation. The panel will continue its work on this issue next meeting and further report as progress is made.
32. **Note:** The Board may wish to take note of the oral report of the secretariat on energy efficiency work.
33. **Note:** The Board may wish to take note that the thirty-ninth meeting of the panel will be held from 22 to 26 June 2009, as per annex 74 of the forty-fifth meeting of the Board.
34. **Note:** The Board may also wish to take note that the deadline for submission of requests for revision and requests for clarification to be considered at the thirty-ninth meeting to be held from 22 - 26 June 2009 was 11 May 2009, and the deadline for submission of requests for revision and requests for clarification to be considered at the 40th meeting to be held from 14 - 18 September 2009 shall be 3 August 2009, 24:00 GMT.

**(c) Issues relating to CDM afforestation and reforestation project activities**

35. **► Action:** The Board may wish to take note of the report on the work of the twenty-fourth meeting of the Afforestation and Reforestation Working Group (A/R WG) and an oral report by its Chair, Mr. José Domingos Miguez, on the work of the group.

*Background:* The A/R WG held its the twenty-fourth meeting on 29 April - 01 May 2009 in Bonn, Germany. The A/R WG dealt with case-specific issues and general issues.

*Responses to requests for clarifications*

36. ► **Action:** The Board may wish to take note of the response to the request for clarification AR-AM-CLA\_0007, as provided by the A/R WG and referred to in the A/R WG 24 report (see paragraph 6).

*Background:* Information on the clarification to approved A/R CDM methodologies is available on the UNFCCC CDM website (<<http://cdm.unfccc.int/goto/ARclar>>).

*Revisions of approved methodologies*

37. ► **Action:** The Board may wish to consider the draft revision to the approved methodology AR-AM0007 “Afforestation and Reforestation of Land Currently Under Agricultural or Pastoral Use”, as contained in annex 1 to the report of the twenty-fourth meeting of the A/R WG.

*Background:* The Board during its forty-fourth meeting requested the secretariat to prepare draft revisions for consideration by the A/R WG, to those approved A/R CDM baseline and monitoring methodologies affected by the Board’s guidance referred to in paragraph 37 of the EB 44 report, and also, in doing so, to make the methodologies consistent with each other, especially if they differ in approaches applied for similar issues. The A/R WG considered the draft revisions prepared by the secretariat and agreed to recommend that the Board approve a revision to the approved methodology AR-AM0007 “Afforestation and Reforestation of Land Currently Under Agricultural or Pastoral Use”. The revision replaced a complicated approach for inclusion of land use change as a part of the baseline scenario with a simple unified approach for estimation of the baseline net GHG removals by sinks, and applied the simplified design proposed in the approved methodology AR-ACM0001.

38. ► **Action:** The Board may wish to consider the draft revision to the approved methodology AR-AM0009 “Afforestation or reforestation on degraded land allowing for silvopastoral activities”, as contained in annex 2 to the report of the twenty-fourth meeting of the A/R WG.

*Background:* The Board during its forty-fourth meeting requested the secretariat to prepare draft revisions for consideration by the A/R WG, to those approved A/R CDM baseline and monitoring methodologies affected by the Board’s guidance referred to in paragraph 37 of the EB 44 report, and also, in doing so, to make the methodologies consistent with each other, especially if they differ in approaches applied for similar issues. The A/R WG considered the draft revisions prepared by the secretariat and agreed to recommend that the Board approve a revision to the approved methodology AR-AM0009 “Afforestation or reforestation on degraded land allowing for silvopastoral activities”. The draft revised methodology applies approved guidance on significance of GHG emissions and flexibility in application of the definition of the project boundary. It introduces the default approach for assessing changes in soil organic carbon pool and provides several editorial changes to give further clarity.

39. ► **Action:** The Board may wish to consider the draft revision to the approved methodology AR-AMS0004 “Simplified baseline and monitoring methodology for small-scale agroforestry - afforestation and reforestation project activities under the clean development mechanism”, as contained in annex 3 to the report of the twenty-fourth meeting of the A/R WG.

*Background:* The A/R WG agreed to recommend that the Board approve a revision to the approved methodology AR-AMS0004 “Simplified baseline and monitoring methodology for small-scale agroforestry - afforestation and reforestation project activities under the clean development mechanism” in order to allow for application of the default approach for estimation of changes in soil organic carbon and provide several editorial changes allowing for further clarity and simplification.



### General guidance

40. ► **Action:** The Board may wish to consider a draft new small-scale A/R methodology for A/R CDM project activities: “Simplified baseline and monitoring methodology for small-scale silvopastoral - afforestation and reforestation project activities under the clean development mechanism”, as contained in annex 4 to the report of the twenty-fourth meeting of the A/R WG, and link it to the sectoral scope 14;

*Background:* The A/R WG considered and agreed to recommend to the Board for approval a draft new small-scale A/R methodology for A/R CDM project activities: “Simplified baseline and monitoring methodology for small-scale silvopastoral - afforestation and reforestation project activities under the clean development mechanism”. The methodology is applicable to SSC A/R CDM project activities that are implemented on croplands or degraded grasslands subjected to grazing activities and allows for continuation of a grazing regime in the project scenario.

41. ► **Action:** The Board may wish to agree on the draft terms of reference to assess the implications of the possible inclusion of lands with forests in exhaustion as A/R CDM project activities.

*Background:* At its last meeting, the Board took note of the terms of reference to assess the implications of the possible inclusion of lands with forests in exhaustion as A/R CDM project activities, as requested by CMP (2/CMP.4, paragraph 42), and agreed to continue consideration of the document in its forty-seventh meeting.

42. ► **Note:** The Board may wish to take note that the A/R WG considered the practical application of the CMP.4 decision “Further Guidance Relating to the CDM” and discussed various proposals for improvement of the process of consideration of methodological issues, aiming at improving quality of and consistency between approved methodologies and enhancing efficiency of the group. The A/R WG requested that the Board might wish to note the following:

- (a) A/R CDM methodologies that are too generic and try to cover a very wide range of circumstances may lead to too much complexity for practical application. In the A/R context, simplicity may be best achieved by customized methodologies, that deal with narrower but common circumstances potentially applicable over large areas;
- (b) Further development of a modular approach to A/R methodologies is expected to simplify their application in project-specific circumstances;
- (c) User-friendliness of the approved methodologies and tools is expected to be increased if they are implemented as software, including the possibility for simple entry of data and selection of values for default parameters;
- (d) In order to get inputs on difficulties in application, or reasons for non-application of the methodologies, feedback should be sought (using questionnaires) from PPs that have proposed methodologies which have been approved by the EB, and also from those known to be attempting to apply the approved methodologies, and other relevant stakeholders (DNAs, DOEs);
- (e) The A/R WG shall continue its efforts to facilitate application of the approved methodologies and tools and make them more user-friendly, and revise them as appropriate;
- (f) In the context of regional and sub-regional CDM project activity distribution and capacity-building, the A/R WG welcomes the opportunity to take part in A/R CDM capacity-building activities.



43. ► **Note:** The Board may wish to take note that the twenty-fifth meeting of the A/R WG will be held from 21 to 23 September 2009, as per annex 74 of the forty-fifth meeting of the Board.

44. ► **Note:** The Board may wish to remind project participants that the deadline for consideration of requests for revision and requests for clarification of A/R methodologies at the twenty-fifth meeting is 18 August 2009.

45. ► **Note:** The Board may wish to remind project participants that the deadline for the twenty-second round of submissions of proposed new A/R methodologies is 15 June 2009. The Board also reminded project participants that new baseline and monitoring methodologies could be submitted at any time prior to this deadline.

**(d) Issues relating to small-scale CDM project activities**

46. ► **Action:** The Board may wish to take note of the report of the twentieth meeting of the Small Scale Working Group (SSC WG) and an oral report by the Chair of the working group, Mr. Hugh Sealy or its Vice-Chair, Mr. Peer Stiansen on the work of the group.

*Background:* The SSC WG held its twentieth meeting on 29 April - 2 May 2009 in Bonn, Germany. The SSC WG dealt with case-specific issues, process and methodological clarifications and other issues, as specified below.

***Case specific***

47. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AA Transportation Energy Efficiency Activities using Retrofit Technologies’, as contained in annex 1 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology is for engine retrofit of vehicles for higher fuel efficiency in commercial passenger transport (e.g., direct in cylinder fuel injection to substitute carburetted fuel supply in tricycle taxis).

48. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AB Avoidance of HFC emissions in Standalone Commercial Refrigeration Cabinets’, as contained in annex 2 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology is for avoiding fugitive HFC-134a refrigerant emissions during manufacturing, usage, servicing and disposal of commercial stand-alone freezers (e.g., those used in storage and vending of ice cream).

49. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AC Electricity and/or heat generation using fuel cell’, as contained in annex 3 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology is for electricity and/or heat generation using fuel cell technology with natural gas as feedstock. The energy generated will be supplied to existing or new users/facilities to displace more carbon intensive fossil fuel that would have been used in the baseline.

50. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AD Emission reductions in hydraulic lime production’, as contained in annex 4 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology is for alternative hydraulic lime production utilising non-calcined mineral components and additives.



51. ► **Action:** The Board may wish to approve the methodology ‘AMS-II.K Industrial process optimization for energy efficiency and electricity generation’, as contained in annex 5 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology is for improving the energy efficiency of a sub-process within an existing industrial facility (e.g., alumina production) where the saved energy is utilised for the increased generation of electricity which displaces electricity from another source.

52. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AE Shift from high carbon intensive fuel mix ratio to low carbon intensive fuel mix ratio’, as contained in annex 6 of the report of the twentieth meeting of the SSC WG.

*Background:* The methodology includes cases for example involving replacement of a heavy fuel oil (HFO) engine with a Natural Gas (NG) engine to enable a low GHG intensive fuel mix ratio of 25:75 (HFO: NG) from a baseline fuel mix ratio of 70:30 (HFO: NG) on an annual basis.

53. ► **Action:** The Board may wish to approve the methodology ‘AMS-III.AF Switching from high carbon intensive grid electricity to low carbon intensive fossil fuels’, as contained in annex 7 of the report of the twentieth meeting of the SSC WG.

*Background:* This methodology is applicable when the sole or one of the energy sources in the baseline is high carbon intensive grid electricity (e.g. switch from captive generation complemented by grid electricity import to a natural gas based captive electricity generation).

54. ► **Action:** The Board may wish to provide guidance in relation to requests for deviation concerning small-scale project activities submitted by DOEs prior to registration.

*Background:* Three requests for deviation in relation small-scale project activities have been submitted by DOEs to the Board since its last meeting for consideration by the Board at its forty-seventh meeting.

#### **Revisions of approved methodologies:**

55. ► **Action:** The Board may wish to approve the revision of ‘AMS-II.J’ as contained in annex 8 of the report of the twentieth meeting of the SSC WG.

*Background:* In response to submissions SSC\_266, SSC\_269, SSC\_276, SSC\_277, SSC\_284, SSC\_288 and SSC\_289, the SSC WG agreed to recommend a revision to AMS-II.J. Proposed revisions include *inter alia* (a) Broader range of eligible incandescent and CFL Wattages to expand the applicability of the methodology; (b) Deletion of cross effect calculations and baseline penetration assessment for PoAs (c) Provisions to use results of ex post surveys to correct CFL attrition rates for more accurate estimation of emission reductions. The SSC WG analysed the available pertinent literature with a view to develop default factors for simplified estimation of leakage due to cross effects based on cooling degree days (CDD) and heating degree days (HDD) of a location. However no specific criteria could be determined at this time for accurately determining this leakage, if it occurs at all, from CFLs in residential applications. Diverse technologies/measures are used to meet cooling and heating needs, combined effect of increased heating needs and reduced cooling needs attributable to efficient lighting is likely to be negligible on an average basis and there are high uncertainties surrounding the available data on parameters required to estimate cross effects in the context of households. The SSC WG recommended the deletion of baseline penetration (BP) of CFLs as redundant to NTG (net to gross adjustment) calculations. Furthermore, while the estimation of BP and factoring its impact on electricity savings may be an important component of a market transformation initiative,



the SSC WG agreed that the present method of ex ante point estimate of BP in the methodology is not satisfactory.

56. ► **Action:** The Board may wish to approve the revision of ‘AMS-II.C’ as contained in annex 9 of the report of the twentieth meeting of the SSC WG.

*Background:* The SSC WG agreed to recommend a revision of AMS-II.C with a view to maintain consistency between AMS-II.J and AMS-II.C (e.g., in the consideration of leakages such as cross effects and baseline penetration) as well as the distinction between the two approved methodologies (e.g., simplified monitoring requirements of AMS-II.J with conservative daily lamp utilisation hour rate and CFL attrition rates versus rigorous monitoring requirements of AMS-II.C with the option to use field data for utilisation hours and lamp attrition rates).

57. ► **Action:** The Board may wish to approve the revision of ‘AMS-III.B’ as contained in annex 10 of the report of the twentieth meeting of the SSC WG.

*Background:* As requested by the Board at its forty-sixth meeting (paragraph 58 of the forty-sixth meeting of the Board), the SSC WG analysed the option to deconsolidate the revised AMS-III.B recommended by SSC WG 19 which had newly covered cases involving multiple fossil fuel use, Greenfield projects and grid electricity use. The SSC WG recommended a revision of AMS-III.B broadening its applicability (e.g., to cases involving multiple elemental processes using different fuels in the baseline shifting to single fuel use in the project) together with two new methodologies to respectively cover the cases involving grid electricity use and multiple fossil fuel use during the crediting period (see paragraph 53 and 54 above). The revision proposed also requires the application of the “Combined tool to identify the baseline scenario and demonstrate additionality” to determine the baseline scenarios.

58. ► **Action:** The Board may wish to approve the revision of ‘AMS-III.F’ as contained in annex 11 of the report of the twentieth meeting of the SSC WG.

*Background:* In response to the submission SSC\_294, the SSC WG agreed to recommend a revision of AMS-III.F. The recommended revisions provide more guidance regarding the calculation of project emissions from the compost taking into account specific characteristics of the composting technology/measure employed.

59. ► **Action:** The Board may wish to approve the revision of ‘AMS-III.Z’ as contained in annex 12 of the report of the twentieth meeting of the SSC WG.

*Background:* In response to the submissions SSC\_297 and SSC\_298, the SSC WG agreed to recommend a revision of AMS-III.Z. The recommended revisions simplify the requirements to establish the comparability of level of service (e.g., comparability of compressive strength) of baseline bricks and the project bricks.

60. ► **Action:** The Board may wish to approve the revision of ‘AMS-III.H’ as contained in annex 13 of the report of the twentieth meeting of the SSC WG.

*Background:* In response to the submission SSC\_291, the SSC WG agreed to recommend a revision of AMS-III.H to include additional guidance on use of methane generation potential based on Biochemical Oxygen Demand (BOD<sub>5,20</sub>).

### **General guidance**

61. ► **Action:** The Board may wish to consider a proposal by the SSC WG on a general guidance on sampling and surveys for SSC methodologies and agree for a call for public inputs on the draft document.





*Background:* As requested by the Board at its forty-first meeting (see annex 13, EB 41), the SSC WG, taking into account an expert input, agreed to recommend a general guidance on sampling and surveys for SSC methodologies. The guidance includes: (a) a basic primer on sampling; (b) recommended sampling precision and confidence requirements for three different types of sampling estimates; (c) summary of types of samples that could be utilized for CDM activities; (d) recommendations on sound sampling practices; (e) requirements for what needs to be included in a PDD sampling plan; (f) recommendations on how the appropriateness of PDD sampling plans submitted for registration should be evaluated; (g) examples for a few Small Scale applications; and (h) annexes with sampling equations and references/resources.

While the focus of the guidance is on end-use energy efficiency applications, its application is not limited to just these applications. The SSC WG further recommended that the Board may consider a call for public input on the draft document before its approval.

62. ► **Action:** The Board may wish to consider a proposal by the SSC WG on the revision of the “General guidance on leakage in biomass project activities”.

*Background:* In response to submission SSC\_255, the SSC WG analysed the implementation of requirements of “General guidance on leakage in biomass project activities” with regard to the estimation of biomass availability in registered PDDs and agreed to recommend a revision of the guidance document. The revisions clarify that the estimation of biomass availability is to be done *ex ante* at the beginning of each crediting period.

63. ► **Action:** The Board may wish to consider providing guidance to the SSC WG concerning CMP.4 request (paragraph 43) on exploring the use of default emission factors for small-scale end-user energy efficiency methodologies, where appropriate, that the ‘default emission factor’ in this context can be considered as ‘default operating parameter’.

*Background:* The SSC WG at its twentieth meeting noted that the Board requested its input with regard to paragraph 43 of the CMP 4 report concerning “explore the use of default emission factors for small-scale end-user energy efficiency methodologies, where appropriate”. In this regards the SSC WG requests clarification and further guidance from the Board as to the meaning and intention of default emission factors as it pertains to end-user energy efficiency methodologies. Related to this topic, the SSC WG would also like to suggest that the development of energy efficiency default operating parameters (for example, operating hours for CFLs in commercial applications) and per unit energy savings (for example, per residential appliance unit annual energy savings) could improve the ease of implementing the CDM methodologies. This could involve for example expert inputs for defining a process for developing and maintaining a database of CDM energy efficiency default operating parameters and per unit energy savings values, perhaps building on existing data sources. Development of a first set of default savings values and at least their applicability conditions would follow also taking into account expert inputs.

64. ► **Action:** The Board may wish to consider providing guidance to the SSC WG with regard to further work in defining the consideration of baseline penetration in small scale methodologies.

*Background:* The SSC WG agreed to request guidance from the Board with regard to further work in defining the consideration of baseline penetration in small scale methodologies. As a starting point, the Board may wish to consider the following concepts:

- (a) Specific methodologies are applicable to countries (or regions of countries where the project activity is implemented) where technology penetration rate is less than X%. (“X” to be determined by the Board in general or per specific technology(ies), statically or dynamically);



(b) Technology penetration rate is defined as either market share or percent of total sales of a technology (e.g., residential lamps) sold during the calendar year that occurred two years prior to the start of the project activity or prior to the start of each CPA in a PoA;

(c) That technology penetration rates are lower than X% can be determined by national or regional data or studies provided by independent third parties or compiled by project participants.

65. ► **Note:** The Board may wish to take note that the case SSC-NM017-rev and SSC-NM018-rev were deemed not suitable for recommendation to the Board<sup>4</sup> by the SSC WG (see SSC WG 20 report).

66. ► **Note:** The Board may wish to take note that the twenty-first meeting of the SSC WG will be held from 16 to 19 June 2009, as per annex 66 of the forty-sixth meeting of the Board.

(e) **Matters relating to programme of activities (PoA)**

67. ► **Action:** The Board may wish to consider the draft revisions to the procedures of the Programme of Activities (PoA) as contained in annex 2 to these annotations.

*Background:* At its last meetings, the Board took note of an update regarding the revision of the Procedures for registration of a Programme of Activities as a single CDM project activity. The Board requested the secretariat to prepare a revised version of the procedures taking account of inputs received and the policy discussion undertaken by the Board at its forty-fifth and forty-sixth meeting. The Board will consider this draft revision of the procedures at its forty-seventh meeting.

(f) **Matters relating to the registration of CDM project activities**

68. ► **Action:** The Board may wish to take stock on the progress of registration.

*Background:* The information available in the section on “Project Activities” on the UNFCCC CDM website (<<http://cdm.unfccc.int/Projects>>), indicates the status of project activities submitted for registration. The main information, as of 12 May 2009, can be summarized as follows:

- (a) Total registered CDM project activities: 1,613;
- (b) Request for registration: 87;
- (c) Request for review: 31;
- (d) Corrections requested: 64;
- (e) Under review: 31;
- (f) Total rejected CDM project activities: 104;
- (g) Total withdrawn: 28.

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<sup>4</sup> In accordance with paragraph 13 of the procedures for the submission and consideration of a proposed new small scale methodology.

*Case specific*

69. ► **Action:** The Board shall consider the requests for review of the 28 requests for registration in table 1 below.

*Table 1: Projects for which a review has been requested by three or more Board members or one Party involved.*

<i>Ref No.</i>	<i>Title</i>	<i>A</i>	<i>B</i>	<i>C</i>
1566	1.725 MW Mini Hydel Scheme on Nagavali River, Andhra Pradesh, India	?	?	?
1662	Inner Mongolia Erlianhaote Phase I Wind Farm Project	?	?	?
1825	Guohua Tongliao Kezuo Zhongqi Phase II 49.5 MW Wind Farm Project	?	?	?
2101	Santa Rosa Hydropower Plant Project	?	?	?
2176	China Changtanghe Rundle Small Hydropower Project	?	?	?
2226	The Blended Cement project utilizing the additives to decrease the clinker content in Shanxi Guashan Cement	?	?	?
2230	Jiangsu Rudong Biomass Power Generation Project	?	?	?
2238	Yunnan Yingjiang Mangya River 2nd Hydropower Station	?	?	?
2249	Perdigão Sustainable Swine Production 01 – Methane capture and combustion	?	?	?
2250	Abidjan Municipal Solid Waste-To-Energy Project	?	?	?
2255	Siliping Small-Scale Hydro Power Project	?	?	?
2264	Forestal y Papelera Concepción Biomass Residues Cogeneration Plant in Chile	?	?	?
2279	Rural Education for Development Society (REDS) CDM Photovoltaic Lighting Project	?	?	?
2285	Displacement of the electricity of the national electric grid by the auto-generation of renewable energy in the Cañaveralejo Wastewater Treatment Plant of EMCALI in Cali, Colombia	?	?	?
2311	Federal Intertrade Hong-Ru River Solar Cooker Project	?	?	?
2312	Yichun xiaochengshan wind power Project	?	?	?
2341	Introduction of the recovery and combustion of methane in the existing sludge treatment system of the Cañaveralejo Wastewater Treatment Plant of EMCALI in Cali, Colombia	?	?	?
2342	14 MW Wind Power Project in Maharashtra	?	?	?
2344	Zhumadian Zhongyuan Gas-Steam Combined Cycle Power Project in Henan China	?	?	?
2346	Kabil II 11.4 MW Gas Fired Project	?	?	?
2359	7.5 MW Bundled Small Hydropower Project in Qiandongnan Autonomous Region, Guizhou Province, P.R. China	?	?	?
2362	Monjolinho Energética S.A.'s CDM Project	?	?	?
2367	Phu Mau hydropower project	?	?	?
2370	5.1 MW bundled Wind Power Project in Tirunelveli (Tamil Nadu)	?	?	?
2371	Muong Sang hydropower project	?	?	?
2373	Ningxia Yinchuan No. 1 Natural Gas Cogeneration Project	?	?	?
2411	Energy Efficiency Measures at Desalination Plant in Chennai	?	?	?
2415	10 MW Bhavani Barrage-1 Small Hydroelectric Project for a Grid connected system, Tamil Nadu , India	?	?	?



*Background:* Three or more members of the Executive Board or a Party involved requested a review of the requests for registration of the cases listed in table 1 above. In accordance with “Procedures for review referred to in paragraph 41 of the modalities and procedures for a clean development mechanism”, for each case the Board shall decide whether to register the project activity as requested (case A in table 1), request that changes be made in the project documentation prior to registration (case B in table 1), or undertake a review (case C in table 1). If the Board agrees to undertake a review of these requests for registration it shall also decide on the scope of the review and the composition of the review team for each case.

70. ► **Action:** The Board shall consider the recommendation of the review team for 31 project activities listed in table 2, which the Board placed under review at its forty-sixth meeting.

Table 2: Projects which were placed “Under review” at EB46

Ref No.	Title	A	B	C
1752	Fujian Zhouning Qianping Hydropower Project	?	?	?
1866	Heilongjiang Fujin Phase II 18MW Wind Power Project	?	?	?
2002	Yuquan 16 MW Hydro-electric Power Station Project	?	?	?
2004	Guangxi Zhuang Autonomous Region Wuzhou Wangcun Hydropower Station	?	?	?
2053	Inner Mongolia Siziwangqi Bayin’aobao Wind Power Project	?	?	?
2062	Heilongjiang Yilan Hezuolinchang Wind Power Project	?	?	?
2064	Yunnan Jinping Miao-Yao-Dai Autonomous County Kesikou Hydropower Station	?	?	?
2099	Inner Mongolia Bayannaer Chuanjingsumu Wind Power Project	?	?	?
2106	Yunnan Lianghe Hulukou Hydropower Station	?	?	?
2114	Lijiang Wulanghe Secondary Hydropower Project	?	?	?
2143	Nanning Shizuo Non-Carbonated Raw Material for Cement Production Renovation Project	?	?	?
2155	Sichuan Baishuijiang Shuanghe Hydro Power Project	?	?	?
2156	Fujian Shouning Xiadongxi 25MW Hydropower Project	?	?	?
2164	Zilenghe 24MW Hydropower Project in Yunnan Province	?	?	?
2165	Rialma Companhia Energética III S/A. – Santa Edwiges III Small Hydro Power Plant – Small Scale CDM Project	?	?	?
2171	Waixiong Hydropower plant project	?	?	?
2190	Sichuan Yanyuan Yongning River Hydropower Station	?	?	?
2205	Hebei Wanquan Yulong Wind Power Project	?	?	?
2209	Dalian Tuchengzi Wind Power Project 30 MW	?	?	?
2211	Santa Cruz S.A. - Açúcar e Álcool - Cogeneration Project.	?	?	?
2216	Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project	?	?	?
2219	Liaoning Changtu Quantou Wind Power Project	?	?	?
2231	Surac Bagasse Plant Project	?	?	?
2232	Catalytic N <sub>2</sub> O Abatement Project in the tail gas of the Caprolactam production plant in Thailand	?	?	?
2233	Thermal energy from biomass at Mohota Mills	?	?	?
2237	Bromine Compounds Fuel-Switch Project	?	?	?
2248	Dead Sea Magnesium (DSM) Fuel-Switch Project	?	?	?



<i>Ref No.</i>	<i>Title</i>	<i>A</i>	<i>B</i>	<i>C</i>
2251	11.4 MW Bundled Small Hydropower Project in Shanjunyan and Liaoli, Guizhou Province, P. R. China	?	?	?
2253	12.82 MW Bundled Small Hydropower Project in Qiandongnan Autonomous Region, Guizhou Province, P. R. China	?	?	?
2319	INPA Fuel Switch Project	?	?	?
2334	Anaerobic digestion at Armenis Farm Ltd., Cyprus	?	?	?

*Background:* At its forty-sixth meeting, the Board decided to place the 31 project activities identified in table 2 above under review. A review has been conducted by the review teams and a recommendation has been circulated to the Board. In accordance with the “Procedures for review referred to in paragraph 41 of the modalities and procedures for a clean development mechanism”, the Board shall decide whether to register the project activities (case A in table 2), to request the DOE and project participants to make corrections (case B in table 2), or to reject the project activities (case C in table 2). It should be noted that project activities “Sichuan Jiangyou Longfeng Hydropower Station” (2061), “Yunnan Dayingjiang Meng’e Hydro Power Station”(2073) and “Dead Sea Works Ltd. Small Scale Fuel Switch Project”(2263) which were placed under review by the Board at its forty-sixth meeting have been withdrawn by the DOE/project participants.

#### ***Registration procedure/General guidance***

71. **► Action:** The Board may wish to consider to develop a guidance document compiling the major criteria for decision-making during the review process and make it publicly available.

*Background:* Paragraph 13 of Decision 2/CMP4 requested the Executive Board to develop such a document. Such guidance will facilitate CDM stakeholders in understanding and interpreting decisions by the Board on specific cases in the review process. The Board at its forty-sixth meeting agreed to give further consideration to this issue at its forty-seventh meeting.

#### **(g) Matters relating to the issuance of certified emission reductions and the CDM registry**

72. **► Action:** The Board may wish to take stock of the progress of issuance and the operation of the CDM registry.

*Background:* The information available in the section on “Issuance of CERs” on the UNFCCC CDM website (<http://cdm.unfccc.int/Issuance>), indicates the status of request for issuance. The main information, as of 12 May 2009, can be summarized as follows:

- (a) Total CERs issued: 1076 issuances, aggregate 285,837,492 CERs;
- (b) Requests for Issuance: 18 requests, 1,783,205 aggregate CERs;
- (c) Requests for review: 29 requests, 4,791,705 aggregate CERs;
- (d) Corrections requested: 13 requests;
- (e) Under review: 3 requests;
- (f) Total rejected requests for issuance: 9 requests;
- (g) Total withdrawn requests for issuance: 16 requests.

*Case specific*

73. ► **Action:** The Board shall consider requests for review of the 27 requests for issuance listed in table 3.

*Table 3: Requests for issuance for which a review has been requested by three or more Board members or one Party involved.*

<i>Ref. No.</i>	<i>Title</i>	<i>No. of CERs</i>	<i>A</i>	<i>B</i>	<i>C</i>
0043	Lucélia Bagasse Cogeneration Project (LBCP)	10465	?	?	?
0099	N2O Emission Reduction in Onsan, Republic of Korea	2009207	?	?	?
0147	Hiriyá Landfill Project	102413	?	?	?
0199	Vale do Rosário Bagasse Cogeneration (VRBC)	83982	?	?	?
0211	Usinas Itamarati Cogeneration Project	23080	?	?	?
0211	Usinas Itamarati Cogeneration Project	15629	?	?	?
0244	Aleo Manali 3 MW Small Hydroelectric Project, Himachal Pradesh, India	23727	?	?	?
0268	Lages Methane Avoidance Project	247668	?	?	?
0340	Reduction in steam consumption in stripper reboilers through process modifications	63961	?	?	?
0346	Nueva Aldea Biomass Power Plant Phase 2	149396	?	?	?
0489	Repowering Small Hydro Plants (SHP) in the State of São Paulo, Brazil	14032	?	?	?
0519	Passo do Meio, Salto Natal, Pedrinho I, Granada, Ponte and Salto Corgão Small Hydroelectric Power Plants - Brascan Energética S.A. Project Activity	163004	?	?	?
0543	Nova Sinceridade Small Hydroelectric Power Plant - Brascan Energética Minas Gerais S.A. (BEMG) Project Activity	4966	?	?	?
0604	Candelaria Hydroelectric Project	22259	?	?	?
0614	PERLABI HYDROELECTRIC PROJECT (PHP)	15498	?	?	?
0663	Santa Lúcia II Small Hydro Plant	31469	?	?	?
0836	24 MW Chayadevi Mini Hydro Power Project in Karnataka, India	38962	?	?	?
0865	26 MW Biomass (Cogeneration) based Power generation Project activity	96480	?	?	?
0889	RIMA Fuel Switch in Bocaiúva	25494	?	?	?
0892	Yangquan Coal Mine Methane (CMM) Utilization for Power Generation Project, Shanxi Province, China	444842	?	?	?
0902	Yangquan Coal Mine Methane Advanced Industrial Furnace Utilisation Project	224540	?	?	?
0902	Yangquan Coal Mine Methane Advanced Industrial Furnace Utilisation Project	144057	?	?	?
1011	N2O Emission Reduction in nitric acid plant Paulínia, SP, Brazil	44973	?	?	?
1229	Catalytic N2O destruction project in the tail gas of the nitric acid plant PANNA 3 of Enaex S.A.	189871	?	?	?
1437	Tianji Group Line 2 N2O Abatement Project	193587	?	?	?



<i>Ref. No.</i>	<i>Title</i>	<i>No. of CERs</i>	<i>A</i>	<i>B</i>	<i>C</i>
1455	Jinxiang – Golden Elephant Line 1 N2O Abatement Project	48016	?	?	?
1592	Huadian Ningxia Ningdong Yangjiayao 45MW Wind-farm Project	21668	?	?	?

*Background:* Three or more members of the Executive Board or a Party involved requested a review of the requests for issuance listed in table 3 above. In accordance with the “Procedures for review referred to in paragraph 65 of the modalities and procedures for a clean development mechanism”, for each case the Board shall decide whether to instruct the CDM registry administrator to issue the requested CERs (case A in table 3), to issue CERs following corrections (case B in table 3) or to undertake a review of the request for issuance (case C in table 3). If the Board agrees to undertake a review of these requests for issuance it shall also decide on the scope of the review and the composition of the review team for each case.

74. ► **Action:** The Board shall consider the recommendation of the review team for the three project activities listed in table 4, which the Board placed under review at its forty-sixth meeting.

*Table 4: Projects which were placed “Under review” at EB46*

<i>Ref No.</i>	<i>Title</i>	<i>No. of CERs</i>	<i>A</i>	<i>B</i>	<i>C</i>
0116	N2O Emission Reduction in Paulinia, SP, Brazil	387486	?	?	?
0181	Alta Mogiana Bagasse Cogeneration Project (AMBCP)	39676	?	?	?
0677	Optimization of steam consumption by applying retrofit measures in blow heat recovery system	14974	?	?	?

*Background:* At its forty-sixth meeting the Board decided to place the project activities identified in table 4 above under review. A review has been conducted by the review teams and a recommendation has been circulated to the Board. In accordance with the “Procedures for review referred to in paragraph 65 of the modalities and procedures for a clean development mechanism”, for each case the Board shall decide whether to approve the proposed issuance of CERs (case A in table 4), to request the DOE to make corrections based on the findings from the review before approving the issuance of CERs (case B in Table 4), or to decline to approve the proposed issuance of CERs (case C in Table 4). It should be noted that project activity “Fujian Pingtan Changjiang’ao 100 MW Wind Power Project” (1177) which was placed under review by the Board at its forty-sixth meeting has been withdrawn by the DOE/project participants.

75. ► **Action:** The Board may wish to consider requests for resubmission of a previously rejected request for issuance listed in table 5 below.

*Table 5: Request for resubmission of previously rejected request for issuance*

<i>Ref No.</i>	<i>Title</i>	<i>Monitoring period</i>
1443	Project for the catalytic reduction of N2O emissions with a secondary catalyst inside the ammonia reactor of the nitric acid plant at Dongbu Hannong Chemicals Ltd., Ulsan, Korea (“Dongbu”).	01 Apr 2008 - 15 May 2008

*Background:* In accordance with paragraph 96 of the report of the twenty-eighth meeting of the Executive Board, in cases where the reasons for rejection can be addressed by means of a revised verification report, based on a revised monitoring report, if appropriate, the DOE may request, explaining the reasons, to be permitted to submit a revised request for issuance for the same monitoring period covered by the rejection.



76. ► **Action:** The Board may wish to provide guidance in relation to requests for deviation submitted by DOEs prior to requesting for issuance.

*Background:* Fourteen requests for deviation at issuance have been submitted by DOEs to the Board since its forty-sixth meeting for consideration by the Board at its forty-seventh meeting.

#### **General guidance**

77. ► **Action:** The Board may wish to consider matters relating to changes from project description in the registered PDD and proposed options and procedures to address such changes, as contained in annex 3 and 4 to these annotations.

*Background:* At its last meeting, the Board discussed situations in which the implementation of registered CDM projects may differ from description of the project in the registered PDD. The Board requested the secretariat to prepare procedures and a guidance which reflect the elements of the discussion for its consideration in the forty-seventh meeting.

#### **4. Management plan and resources for the work on the CDM**

78. ► **Action:** The Board may wish to: (a) take note of the report by the secretariat on the status of resources; (b) take further action, as necessary.

*Background:* The status of income and expenditure is presented in annex 5 of these annotations.

#### **5. Other matters**

##### **(a) Requests by CMP to the Board**

79. ► **Action:** The Board may wish to consider the inputs received as a response to the call for inputs on efficiency in the operation of the CDM and opportunities for improvement available on the UNFCCC CDM website<sup>5</sup>.

*Background:* At its last meeting, the Board approved the terms of reference for work on the strategic CDM improvements referred to in decision 2/CMP.4, in order to enable the Board to submit its recommendation to CMP5. The Board agreed to launch a public call for inputs on efficiency in the operation of the CDM and opportunities for improvement, and requested the secretariat to ensure that this be brought to the attention of a wide range of CDM stakeholders, including through the DNA Forum.

80. ► **Action:** The Board may wish to consider the status of the request made by the CMP to the Board through the decision 2/CMP4.

*Background:* At its forty-fifth meeting, the Board took note of the decision 2/CMP.4 “Further guidance to the clean development mechanism” and considered a table prepared by the secretariat which structures the guidance, mandates, tasks, actors and indicated initial timelines. The Board requested the secretariat to cluster the requests by CMP by issues and to update the Board on the status of implementation of the CMP requests every two meetings..

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<sup>5</sup> <[https://cdm.unfccc.int/public\\_inputs/2009/cdmimprov/index.html](https://cdm.unfccc.int/public_inputs/2009/cdmimprov/index.html)>.



**(b) Transparency matters**

81. ► **Action:** The Board may wish to consider and agree to the draft classification hierarchy for all future decisions by the Board, as contained in annex 6 to these annotations

*Background:* At its last meeting, the Board agreed to a workplan for the year 2009 to implement the requests by the CMP in its decision 2/CMP.4 with regard to transparency of the work of the Board. This is one step in a series of actions that the Board will take in 2009 with the objective of improving accurate, transparent and timely access to Board decisions. The workplan is contained in annex 65 to the report of the forty-sixth meeting of the Board.

**(c) Code of conduct**

82. ► **Action:** The Board may wish to consider a code of conduct for members and alternate members of the Executive Board.

*Background:* At its forty-fourth meeting, the Board considered a draft code of conduct prepared by the secretariat and requested the secretariat to prepare a revised draft based on the discussion with a view to consider this issue at its next meeting. Due to time constraints the Board could not consider the issue at its last meeting.

**(d) Privileges and immunities**

83. ► **Action:** The Board may wish to consider the issue of privileges and immunities of members and alternate members of the Executive Board and take note of issues considered at the twenty-seventh session of the Subsidiary Bodies related to privileges and immunities for individuals serving on constituted bodies under the Kyoto Protocol.

*Background:* At its last meeting, members of the Board asked that the issue of privileges and immunities of members and alternate members of the Executive Board be included in the agenda of the Board. Due to time constraints the Board could not consider the issue at its last meeting.

At its twenty-ninth session, subsidiary body for implementations (SBI) considered the agenda item “Privileges and immunities for individuals serving on constituted bodies under the Kyoto Protocol”. The secretariat will provide a briefing to the Board on the developments under this agenda item during the session.

**(e) Regional distribution**

84. ► **Action:** The Board may wish to consider the inputs received in response to the DNA call for inputs on Regional Distribution matters available on the UNFCCC CDM website<sup>6</sup>.

*Background:* At its last meeting, the Board took note of a brief update from the secretariat on some ongoing activities in this area and in response to the request by the CMP (decision 2/CMP.4, paragraph 53) to develop, in consultation with Designated National Authorities, ways to streamline the process relating to CDM project activities in countries hosting fewer than 10 registered CDM project activities, especially in the least developed countries, small island developing States and Africa, without compromising environmental integrity, the Board agreed to launch a call for inputs for Designated National Authorities from 30 March to 4 May 2009 to provide inputs on how to address this CMP request for consideration by the Board at its forty-seventh meeting.

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<sup>6</sup> <[https://cdm.unfccc.int/public\\_inputs/2009/CMPreq/index.html](https://cdm.unfccc.int/public_inputs/2009/CMPreq/index.html)>.

**(f) Relations with Designated National Authorities**

85. ► **Action:** The Board may wish to take note of the update by the secretariat on the outcome of the seventh meeting of the CDM DNA Forum held on 25 - 26 April 2009 in Bonn, Germany.

*Background:* The CMP, at its first session, requested the Board, in relation to regional distribution and capacity-building, to broaden the participation in the CDM, including through meetings with a designated national authorities forum on a regular basis in conjunction with meetings of CMP and its subsidiary bodies. The Board, at its twenty-third meeting, agreed to establish the CDM DNA Forum and requested the secretariat to provide support to this forum.

**(g) Relations with Designated Operational and Applicant Entities**

86. ► **Action:** The Board may wish to (a) take note of the report by the Chair of the CDM DOE/AE Coordination Forum; and (b) provide feedback to the forum, as appropriate.

*Background:* Views on issues to be addressed to the Board by the CDM DOE/AE Coordination Forum are being sought from the DOEs and AEs. The Chair of the forum will present these orally to the Board for its consideration at the meeting. At its last meeting the Chair of the Board requested the Chair of DOE/AE Forum to address the issue of timelines of validation and verification of projects.

**(h) Relations with stakeholders, intergovernmental and non-governmental organizations**

87. ► **Action:** The Board may wish to (a) agree to avail itself for informal briefings with registered observers in the afternoon of the last day of the meeting; and (b) invite members and alternates to share information on events in which they participated.

*Background:* On the occasion of its last meeting, the Chair and other members of the Board met with registered observers for an informal briefing and agreed to continue with such meetings in the afternoon of the last day of its future meetings, unless otherwise indicated.

Board members and alternates continued receiving communications from the public and invitations to participate in CDM-related events.

**(i) Other business**

88. ► **Action:** The Board may wish to take note of communications submitted by the public and agree on any actions, as appropriate.

*Background:* At its thirty-first meeting, the Board revised its procedures for public communication, as contained in annex 37 to its report. These procedures shall be followed with respect to all unsolicited submissions.

The following communications have been sent to the Board prior to its forty-seventh meeting:

- (a) Letter from Mr. Martin Enderlin, Project Developer Forum, received on 11 May 2009, relating to the determination of benchmarks;
- (b) Letter from Huizhou Cheng, International Network on Small Hydro Power, UN Industrial Development Organization, received on 8 May 2009, relating to the coefficient of effective electricity;



- (c) Letter from Dr. Harald Lauke, BASF, received on 30 April 2009 related to the significant distortion of the global adipic acid market due to CDM;
- (d) Letter from Dr. Ing. Christian Fischer, Project Coordinator, German Aerospace Center (DLR), received on 27 April 2009, relating to the explanatory note re. issuance of NM00267 "Shuixi Gou Coal Field Fire Extinguishing Project" submitted and discussed during Meth Panel Meeting 34;
- (e) Letter from Mr. Siddharth Yadav, Global Technical Manager, SGS Climate Change Programme, received on 17 April 2009, relating to the revision in monitoring plan of project activity "8.5 MW biomass based power project, PP0369";
- (f) Letter from Ms. Cynthia Hendrayani, Zeus-Innavitas, received on 7 April 2009, relating to the continued applicability of CDM for a registered project that must change users due to changing business environment - Projects 1313 and 2220;
- (g) Letter from Mr. Edwin Dalenoord, Ecofys - Cement Sustainability Initiative, received on 7 April 2009, relating to the new methodology "Emission reductions in the cement production facilities of Holcim Ecuador SA";
- (h) Letter from Mr. Thomas SD Morton, JP Morgan Climate Care, received on 7 April 2009, relating to ACM005:East Africa Portland Cement, Nairobi, Kenya;
- (i) Letter from Dr. N. Bhanumathidas, INSWAREB, received on 3 April 2009, relating to FaL-G Brick and Blocks Projects 1 & 2;
- (j) Letter from Mr. Patrick McCully, International Rivers, received on 3 April 2009, relating to the letter sent regarding the conformity of assessments made by TÜV-SÜD;
- (k) Letter from Mr. Phil Cohn, Cool nrg, received on 31 March 2009, relating to clarification on Procedure for registration of PoA;
- (l) Letter from Mr. Chaim Nissim, Noé21, received on 22 March 2009, relating to a request for revision - AM0001;
- (m) Letter from Mr. Martin Enderlin, Project Developer Forum, received on 21 March 2009, relating to Comments on timelines for approval of requests of revision of Monitoring Plans;
- (n) Letter from Dr. Sven Kolmetz and Mr. Thomas Kleister, TÜV-SÜD, received on 20 March 2009, relating to the letter from Dr. Axel Michaelova;
- (o) Letter from Mr. William Fox, Lehman Brothers, received on 12 March 2009, relating to Request of exception (Forwarding of CERs - Account 2218);
- (p) Letter from Dr. Axel Michaelova, International Rivers, received on 10 March 2009, relating to the conformity of assessments made by TÜV-SÜD;
- (q) Letter from Mr. Nic Frances, Cool nrg, received on 10 March 2009, relating to CDM domestic energy efficiency ;
- (r) Letter from Mr. Martin Enderlin, Project Developer Forum, received on 9 March 2009, relating to Comments on PoA guidelines.



89. ► **Action:** The Board may wish to consider any other business it deems necessary.

**6. Conclusion of the meeting**

90. ► **Action:** The Board may wish to agree the report of the forty-seventh meeting.

*Background:* The Chair will summarize the meeting and adopt the report, including references to any decisions taken.

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