# REPORT OF THE FORTY-FOURTH MEETING OF THE METHODOLOGIES PANEL

Langer Eugen, Bonn, Germany
21–25 June 2010

**Report Version 01.1***

## RECOMMENDATIONS BY THE METHODOLOGIES PANEL TO THE CDM EXECUTIVE BOARD

### A. Opening of the meeting and adoption of the agenda

1. The Chair of the Methodologies Panel (Meth Panel), Mr. Lex de Jonge opened the meeting.

2. The agenda was adopted as proposed.

3. The Meth Panel welcomed the new members Mr. Sanjay Mande, Mr. Jaime Martin and Mr. Pablo Mello e Souza, the Meth Panel also expressed its deep appreciation for the contributions of the outgoing members Mr. Ludovic Lacrosse, Mr. Narendra Paruchuri and Mr. Roberto Schaeffer, who has been a member of the Meth Panel since its inception.

### B. Consideration of proposed new methodologies

4. The Meth Panel considered the proposed new methodologies listed in the table below, as well as desk reviews and public inputs received, where applicable.

5. The final recommendations, proposed by the Meth Panel for consideration by the CDM Executive Board (the Board), are made available on the UNFCCC CDM website at <http://cdm.unfccc.int/goto/MPpropmeth>.

6. In accordance with the procedures for submission and consideration of a proposed new methodology, project participants may submit, via the DOE, technical clarifications to preliminary recommendations. Preliminary recommendations for which project participants submit clarification within a timeframe stipulated by the Chair of the Meth Panel (but not exceeding four weeks) shall be considered at the next meeting of the Meth Panel. If project participants do not provide clarification related to the preliminary recommendation by the Meth Panel within the timeframe of three months, the case will be considered withdrawn.

7. The Meth Panel agreed on the following recommendations:

**Table 1: Proposed new methodologies**

| Proposed new methodology | Recommendation[1] |
|---|---|
| **NM0282:** Usipar Pulverized Charcoal Injection Project | **C** |
| **NM0302:** Emission reductions in the cement production facilities of Holcim Ecuador S.A | **WIP (see paragraph 8)** |

* This version was issued to: (i) Correct the annex numbering in the body of the report; and (ii) to restore paragraph 42 which was omitted during the creation of the PDF version of the report.

[1] Recommendations on the proposed new methodologies from the forty-fourth meeting of the panel A (recommended for approval) and C (recommended for non-approval) are final recommendations to the Board. Preliminary Recommendations are technical clarifications requested by the panel from project participants before finalizing its recommendation to the Board.

| Proposed new methodology | Recommendation[1] |
|---|---|
| **NM0310:** Carbon di-oxide emission reductions by the introduction of Hot Direct Reduction Iron in the Electric Arc Furnaces | **WIP (see paragraph 8)** |
| **NM0312:** REFAP HBIO Project | **WIP (see paragraph 8)** |
| **NM0313:** Air separation using cryogenic energy of LNG | **A (see annex 1)** |
| **NM0320:** Modal shift transportation for less intensive GHG emission | **WIP (see paragraph 8)** |
| **NM0321:** Effective use of the waste gas emittedfrom ammonia production plant | **C** |
| **NM0325:** Efficient energy generation using biomass residues along with improvement in demand side energy efficiency in a Sugar Mill | **C** |
| **NM0326:** Hot metal production through efficient blast furnace system (s) | **C** |
| **NM0327:** Reducing losses of SF6 in electricity transmission and distribution equipment manufacture | **C** |
| **NM0328:** Energy efficiency and fuel switching measures in new buildings | **Preliminary Recommendation** |
| **NM0329:** The implementation of Solar Water Heaters (SWHs) with storage for warm water applications | **C** |

8. The Meth Panel requested the Board to take note that it could not conclude its consideration of the following proposed new methodologies:

   (a) NM0302: "CDM methodology for cement and clinker production facilities based on benchmarking" (submitted as "Emission reductions in the cement production facilities of Holcim Ecuador S.A") because the Meth Panel will seek feedback from project participants concerning adjustments to the original proposed new methodology that the Meth Panel deemed required, with respect to the levels of the benchmarks for clinker and cement, the definition of regions for the determination of the sample group of plants used to calculate the benchmarks and the general presentation of the methodology. The Meth Panel agreed to continue the consideration of the methodology at its next meeting.

   (b) NM0310: Carbon di-oxide emission reductions by the introduction of Hot Direct Reduction Iron in the Electric Arc Furnaces. The Meth Panel agreed to check the consistency between the baseline emissions section and the monitoring section proposed in the PNM. The Meth Panel will consider the methodology at its next meeting with a view to providing a final recommendation to the Board.

   (c) NM0312: "REFAP HBIO Project" because of the time constraints. The Meth Panel intends to conclude its consideration of the methodology at its next meeting.

   (d) NM0320: "Modal shift transportation for less intensive GHG emission" because further work is needed to resolve the following issues: (i) Structure of the methodology; (ii) Procedure for assessment of additionality; (iii) List of parties regarded as project proponents; (iv) List of investment types, (v) Allocation of the emissions to return trip; and (vi) Determination of emission factors for road-based transportation in the baseline scenario. The Meth Panel intends to conclude its consideration of the methodology at its next meeting.

## C. Requests for clarification on and revision to approved methodologies

9. The Meth Panel requested the Board to take note of the following responses to requests for clarification related to the application of approved baseline and monitoring methodologies and methodological tools and approve the following responses to requests for revision to approved methodologies. The requests submitted and the responses provided by the Meth Panel are made publicly available on the UNFCCC CDM website at <http://cdm.unfccc.int/goto/MPclar> and <http://cdm.unfccc.int/goto/MPrev>, respectively. The requests for revision/clarification that resulted in a recommendation by the Meth Panel to revise an approved methodology are reflected in section D below.

**Table 2: Request for clarification**

| Number of the request for clarification | Approved methodology | Title of the request for clarification | MP44 response |
|---|---|---|---|
| **AM_CLA_0174** | **AM0036** | Clarification on whether power generation can be reduced due to increased grid supply due to factors outside the scope of the project activity | **Clarified (fast track)** |
| **AM_CLA_0175** | **ACM0005** | Usage of carbon black as an additional additive material blended with clinker in the manufacturing of blended Cement | **Clarified (fast track)** |
| **AM_CLA_0176** | **ACM0007** | Clarification of the method of estimation of the electricity that would be generated by the operation of the power plant in open cycle mode in the baseline scenario based on the historical load situation | **Clarified and revised (see paragraph 24)** |
| **AM_CLA_0177** | **AM0053** | Question regarding applicability of AM0053 to biogenic methane collected from biodigestion of sewage sludge, in combination with AM0025 | **Clarified and revised (see paragraphs 17 and 19)** |
| **AM_CLA_0178** | **AM0057** | Applicability of AM0057 to avoided emissions from biomass wastes through use as feed stock in pulp and fibreboard | **Clarified and revised (see paragraph 20)** |
| **AM_CLA_0179** | **AM0087** | Query regarding the Baseline selection in methodology AM0087, version 01 | **Clarified and revised (see paragraph 23)** |
| **AM_CLA_0180** | **ACM0018** | Clarification regarding the applicability condition n°5 of ACM0018 version 01 (biomass preparation) | **Clarified (fast track)** |

| | | | |
|---|---|---|---|
| AM_CLA_0181 | **ACM0002** | Applicability of ACM0002 to hydropower plants increasing power output through control and removal of the sedimentation accumulating in existing reservoirs | **Clarified** |
| AM_CLA_0182 | **AM0058** | AM0058 Inquiries regarding the correct application of AM0058 with respect to baseline identification and determination of additionality | **Clarified and revised (see paragraph 21)** |
| AM_CLA_0183 | **ACM0008** | Allowing alternative and conservative calculation of emission reduction from a CMM power plant | **Fast track clarification withdrawn (see paragraph 10)** |
| AM_CLA_0184 | **AM0035** | The applicability of the methodology to the existing recovery activity and only to the distribution part | **Clarified (fast track)** |
| AM_CLA_0185 | **ACM0007** | Clarification of which project data and variables must be available at start of project validation and which data shall be available at first verification of emission reductions | **Clarified and revised (see paragraph 24)** |
| AM_CLA_0186 | **AM0015** | Clarification is requested for baseline emissions in cases of power export prior to implementation of PA | **Clarified** |

**Table 3: Requests for revision**

| Number of the request for revision | Approved methodology | Title of the request for revision | MP44 response |
|---|---|---|---|
| AM_REV_0141 | **AM0024** | Extension of methodology AM0024 to cases where the project activity displaces both grid electricity and electricity from an identified power generation source | **WIP (see paragraph 12)** |
| AM_REV_0145 | **ACM0006** | Propose a new scenario (scenario 22) to include the situation in which biomass residues and fossil fuels are used in the baseline scenario | **WIP (see paragraph 15)** |

| | | | |
|---|---|---|---|
| AM_REV_0149 | **ACM0014** | Alternative Approach to Appendix II for estimation of the Chemical Oxygen Demand that is lost through sedimentation, and correction of equation 17 in ACM0014 version 03, page 17/37 | **WIP (see paragraph 13)** |
| AM_REV_0157 | **ACM0012** | The applicability of the methodology has been expanded to accommodate the usage of waste energy for supply of heat of reaction with or without process heating | **WIP (see paragraph 14)** |
| AM_REV_0169 | **ACM0006** | Amplification of applicability by the addition of a new project scenario based on a new combination of the existing alternative baseline scenarios | **WIP (see paragraph 15)** |
| AM_REV_0172 | **ACM0006** | Combination of baseline scenarios | **WIP (see paragraph 15)** |
| AM_REV_0177 | **ACM0006** | Inclusion of a new scenario for biomass residue based project activities which use fossil fuels during non- availability of the biomass residues, through the inclusion of new alternatives for power and heat (P12 and H11) | **WIP (see paragraph 15)** |
| AM_REV_0180 | **ACM0006** | Expansion of ACM0006 to include a new scenario for fuel switch project | **WIP (see paragraph 15)** |
| AM_REV_0182 | **ACM0006** | Revision of ACM0006 to include biogas from anaerobic wastewater treatment | **Not to revise** |
| AM_REV_0183 | **ACM0006** | Propose a new scenario (scenario 23) to include the situation which less biomass is used than the project scenario | **WIP (see paragraph 15)** |
| AM_REV_0184 | **ACM0014** | Possibility to include wastewater solids that are separated from the wastewater to prevent open lagoon clogging and therefore can have a different baseline, in a scenario 1 type anaerobic digester wastewater treatment project | **To revise (see paragraph 26)** |
| AM_REV_0185 | **ACM0008** | Capture and destruction of methane from an opencast coal mine | **To revise** |
| AM_REV_0186 | **AM0001** | Revision to AM0001 to address methodological issues | **Awaiting guidance from the Board (see paragraph 11)** |
| AM_REV_0187 | **ACM0012** | Request for revision ACM0012 Version 3.2 | **Not to revise** |

| | | | |
|---|---|---|---|
| AM_REV_0188 | **ACM0012** | Applicability of ACM0012 to allow for project activities that utilize waste electricity | **Not to revise** |
| AM_REV_0189 | **AM0025** | Co-firing of stabilized biomass from industry with fossil fuel for heat/electricity generation | **To revise (see paragraph 17 and 38)** |
| AM_REV_0190 | **AM0070** | Revision to facilitate the calculation of benchmarks based on data available to PPs and definition of default values | **WIP (see paragraph 16)** |
| AM_REV_0191 | **ACM0015** | Clarification with regards to the applicability of the methodology to greenfield plants | **Not to revise** |
| AM_REV_0192 | **ACM0016** | Revision of Common Practice Analysis | **To revise (see paragraph 27)** |
| AM_REV_0193 | **AM0062** | The correction regarding the calculation of parameter EF for AM0062 | **To revise (see paragraph 22)** |
| AM_REV_0194 | **ACM0012** | Revision of ACM 0012 version 03.2 to allow for the case where the same portion of waste gas used directly in the baseline to generate process heat will be used in the project activity for the same purpose while the gas previously flared will be used for electricity generation | **Not to revise** |

10. The Meth Panel has recognized that the issue included in the request for clarification AM_CLA_0183 is also covered by the request for deviation I-DEV246 hence the panel agreed to withdraw the response to AM_CLA_0183 issued under paragraph 7 of the "Procedure for the submission and consideration of queries regarding the application of approved methodologies and methodological tools by designated operational entities to the Meth Panel" and further requested the Board to take note of it.

11. The Meth Panel requested the Board to take note that it considered publicly available information on potential issues related to application of the methodology AM0001 "Incineration of HFC 23 Waste Streams", including that contained in the request for revision AM_REV_0186. The Meth Panel developed a note containing information on various issues related to the methodology AM0001. The note is contained in annex 2.

    The Meth Panel agreed to request the Board for guidance on possible action with respect to the methodology.

12. The Meth Panel requested the Board to take note that it could not conclude its consideration of the request for the revision AM_REV_0141 because it agreed to consolidate the methodology AM0024 "Methodology for greenhouse gas reductions through waste heat recovery and utilization for power generation at cement plants" - Version 2.1 with the methodology ACM0012 "Consolidated baseline methodology for GHG emission reductions from waste energy recovery projects". The Meth Panel expects to conclude its consideration of the revision of the methodology ACM0012 at its next meeting.

13. The Meth Panel requested the Board to take note that it is assessing expert input regarding the issues raised in the context of the request for revision AM_REV_0149 on the approved methodology ACM0014 "Mitigation of greenhouse gas emissions from treatment of industrial wastewater". The following issues are still to be addressed: (i) Appropriateness of the model presented in the proposed revision and its conservativeness; (ii) Identification of the factors influencing the COD lost through sedimentation in the lagoons; and (iii) The lack of monitoring procedure for the input parameters of the model. The Meth Panel intends to conclude its consideration of the request for revision at its next meeting.

14. The Meth Panel requested the Board to take note that it could not conclude its consideration of the request for revision AM_REV_0157 on the methodology ACM0012 "Consolidated baseline methodology for GHG emission reductions from waste energy recovery projects -Version 3.2". The Meth Panel intends to conclude its consideration of the request for revision at its next meeting.

15. The Meth Panel requested the Board to take note that the consideration of the requests for revision AM_REV_0183, AM_REV_0145, AM_REV_0169, AM_REV_0172, AM_REV_0177 and AM_REV_0180 on the methodology ACM0006 "Consolidated methodology for electricity generation from biomass residues in power and heat plants" was postponed until the work related to the overall revision (deconsolidation) of the methodology ACM0006 is completed.

16. The Meth Panel requested the Board to take note that it could not conclude its consideration of the request for revision AM_REV_0190 on the methodology AM0070 "Manufacturing of energy efficient domestic refrigerators", as the panel seeks further expertise on the adequacy of the default values and the threshold used for the minimum share of labeled refrigerators. The Meth Panel intends to conclude its consideration of the request for revision at its next meeting.

## D. Revision to approved methodologies

17. AM0025: Avoided emissions from organic waste through alternative waste treatment processes - Version 11.

    The Meth Panel recommended the Board to approve a revision to the methodology AM0025 based on elements of the request for revision AM_REV_0189 and of the request for clarification AM_CLA_0177. The draft revision: (i) Clarifies that project activities that process and upgrade biogas from anaerobic digestion to the quality of natural gas and then distribute it as energy via natural gas distribution grid can use the approved methodology AM0053 in conjunction with this methodology; (ii) Provides separate procedures to estimate emissions from thermal energy generation/electricity generation during co-firing fossil fuel with biomass to allow for cases when the fossil fuel used in the boiler is different than that used for other purposes on-site; (iii) Provides a conservative approach to estimate emissions from residual waste from different treatment processes when disposed of in landfills; and (iv) Corrects equation 6, so that the Global Warming Potential of methane ($GWP_{CH4}$) is not taken into account twice. The draft revised methodology is contained in annex 3.

18. AM0034: Catalytic reduction of $N_2O$ inside the ammonia burner of nitric acid plants - Version 04.

    The Meth Panel recommended the Board to approve a revision to the methodology AM0034. The draft revision makes the changes in the equations 3 and 6 of the

methodology with respect to the measure intervals of baseline and project campaign. The draft revised methodology is contained in annex 4.

19. AM0053: Biogenic methane injection to a natural gas distribution grid - Version 01.1.

    The Meth Panel recommended the Board to approve a revision to the methodology AM0053 based on elements of the request for clarification AM_CLA_0177. The draft revision clarifies that the methodology can be used in conjunction with AM0025; and ACM0014, and deletes the reference to the methodology AM0013 as this methodology has been withdrawn. The draft revised methodology is contained in annex 6.

20. AM0057: Avoided emissions from biomass wastes through use as feed stock in pulp and paper production or in bio-oil production - Version 02.2.

    The Meth Panel recommended the Board to approve a revision to the methodology AM0057 based on elements of the request for clarification AM_CLA_0178. The draft revision clarifies that the methodology can be used for cardboard and fibreboard production. The draft revised methodology is contained in annex 7.

21. AM0058: Introduction of a new primary district heating system - Version 03.

    The Meth Panel recommended the Board to approve an editorial revision to the approved methodology AM0058 made in response to the request for clarification AM_CLA_0182. The draft editorial revision clarifies the meaning of lifetime of the project activity, which is defined to be equal to the remaining lifetime of the existing facility. The draft editorially revised methodology is contained in annex 8.

22. AM0062: Energy efficiency improvements of a power plant through retrofitting turbines - Version 01.1.

    The Meth Panel recommended the Board to approve the revision to the methodology AM0062 based on elements of the request for revision AM_REV_0193. The draft revision corrects equation 7, and makes some editorial changes. Other parts of this request were not agreed by the Meth Panel. The draft revised methodology is contained in annex 9.

23. AM0087: Construction of a new natural gas power plant supplying electricity to the grid or a single consumer - Version 01.

    The Meth Panel recommended the Board to approve a revision to the methodology AM0087 based on elements of the request for clarification AM_CLA_0179. The draft revision clarifies how the investment comparison analysis shall be conducted for the baseline identification where two alternatives one of which is that the project participants do not undertake any investment, but that the service is provided by third party are considered. The draft revised methodology is contained in annex 10.

24. ACM0007: Baseline methodology for conversion from single cycle to combined cycle power generation - Version 03.

    The Meth Panel agreed to recommended the Board to approve a revision to the methodology ACM0007 based on elements of the requests for clarification AM_CLA_0176 and AM_CLA_0185 . The draft revision clarifies that the historical data requirements for the baseline emissions should be satisfied at the time of validation and changed the minimum historical data requirement for the open cycle emission factor in the baseline scenario from one year to three years. The revision also: (i) Updates the format of the methodology;; and (ii) Establishes its title as “Consolidated methodology for conversion from single cycle to combined cycle power generation”. The draft revised methodology is contained in annex 12.

25. ACM0008: Consolidated methodology for coal bed methane, coal mine methane and ventilation air methane capture and use for power (electrical or motive) and heat and/or destruction through flaring or flameless oxidation - Version 06.

    The Meth Panel recommended the Board to approve a revision to the consolidated methodology ACM0008 based on elements of the request for revision AM_REV_185 and the request from the Board (EB 54, paragraph 24). The draft revision incorporates: (i) Broaden the applicability conditions of the methodology to include open cast coal mines ; and (ii) Allow project proponents to measure the pre-mining CMM ($PMM_{PJ,y}$) together with the post-mining CMM ($CMM_{PJ,y}$). The draft revised methodology is contained in annex 13.

26. ACM0014: Mitigation of greenhouse gas emissions from treatment of industrial wastewater - Version 03.1.

    The Meth Panel recommended the Board to approve a revision to the consolidated methodology ACM0014 based on elements of the request for revision AM_REV_0184. The draft revision expands the application of the methodology to situation where in the baseline the solid materials are separated from the wastewater and have a different treatment than the wastewater. The draft revised methodology is contained in annex 14.

27. ACM0016: Baseline Methodology for Mass Rapid Transit Projects - Version 01.

    The Meth Panel recommended the Board to approve a revision to the consolidated methodology ACM0016 based on elements of the request for revision AM_REV_0192. The draft revision: (i) Introduces the definition of larger urban zone (LUZ) of a city, and (ii) Accommodates situations, for the common practice analysis, where the city has less than one million inhabitants in its LUZ. The draft revised methodology is contained in annex 15.

28. AM0042: Grid-connected electricity generation using biomass from newly developed dedicated plantations - Version 02;

    AM0057: Avoided emissions from biomass wastes through use as feed stock in pulp and paper production or in bio-oil production - Version 02.2;

    ACM0006: Consolidated methodology for electricity generation from biomass residues in power and heat plants - Version 10; and

    ACM0018: Consolidated methodology for electricity generation from biomass residues in power-only plants - Version 01.

    The Meth Panel recommended the Board to approve editorial revisions to the following methodologies AM0042, ACM0006 ACM0018 and AM0057 in order for those methodologies to reflect the same provisions as contained in the latest version of AM0036, namely, that the moisture content of biomass residues should be monitored for each batch of biomass of homogeneous quality and that the weighted average should be calculated for each monitoring period and used in the calculations. The draft editorially revised methodologies are contained in annexes 5, 11 and 16. As AM0057 has been revised due to AM_CLA_0178, please see annex 7.

## E. Requests from the Board to the Meth Panel

29. Overall revision of ACM0006 "Consolidated methodology for electricity generation from biomass residues in power and heat plants": The Meth Panel requested the Board to take note that it will continue its work on the overall revision of ACM0006 (EB 37, para 23), particularly to develop a new consolidated methodology for biomass residue based heat

and power projects, which is now almost completed but would benefit from input from the public. In order to facilitate work on the revision the Meth Panel requested the Board to agree (including by electronic decision) to launch a call for public inputs on the draft methodology after the secretariat completes editorial work on it. The Meth Panel will continue the consideration of the case with a view to finalize it at its next meeting.

30. I-DEV0246 (request contained in EB 49 communication to the project participants) - Allowing alternative and conservative calculation of emission reduction from a CMM power plant. (ACM0008) The Meth Panel agreed that the proposed alternative approach to estimate the pre-mining CMM ($CMM_{PJ, i,y}$) using indirect method based on the data on power generation is conservative and may be used to estimate emissions during the monitoring period from 22 May 2007 until 5 September 2007.

31. M-DEV0283 Deviation request to allow use of AM0024 "Baseline methodology for greenhouse gas reductions through waste heat recovery and utilization for power generation at cement plants" for a project activity where waste heat from the clinker production process as well as from another waste heat source is used to generate electricity.

    The Meth Panel agreed to recommend not to accept the request for deviation. The main reasons for rejection are: (i) The CDM-PDD excludes the captive power plant from the boundary; (ii) It is not possible to confirm that the project will be always replacing the grid electricity; (iii) No equations are provided in the PDD to describe how the fraction of the energy from the boiler 6 will be discounted; and (iv) No reference is made to the condensate recovered or to how the make-up water will be distributed to the boilers.

32. In response to the request by the Board reflected in paragraph 25 of its 54$^{th}$ meeting, concerning a proposed revision to the "Tool to calculate the emission factor for an electricity system", the Meth Panel agreed to further consider the request of the Board and work on alternatives to be considered during the revision to the referred tool. The Meth Panel will continue the consideration of the case at its next meeting.

33. In response to the request by the Board, concerning the requirement of continuous monitoring of the moisture content of biomass residues in the context of the approved methodologies AM0036 and ACM0006, the Meth Panel recommended editorial revisions to the following approved methodologies AM0042, AM0057, ACM0006 and ACM0018 in order for them to reflect the same provisions as contained in the latest version of AM0036, namely, that the moisture content of biomass residues should be monitored for each batch of biomass of homogeneous quality and that the weighted average should be calculated for each monitoring period and used in the calculations.

34. Revision of the "Combined tool to demonstrate additionality and identify the baseline scenario". The Meth Panel requested the Board to take note that it considered the issues raised by the Board with regard to the revision of the Combined Tool (EB 48, para. 35). The Meth Panel will continue the consideration of the tool at its next meeting.

## F. Issues of general guidance and tools

35. The Board decided at its fifty-third meeting to launch a call for public inputs on a draft "Tool to determine the weighted average cost of capital (WACC)". The Meth Panel requests the Board to take note that it reviewed the public comments submitted on the draft tool. The main issues raised in the comments from stakeholders include concerns on *inter alia* the application of CAPM, transition from Capital Asset Pricing Model (CAPM) to new tool, debt to equity ratio default value of 50:50 for Greenfield projects, use of international/local accounting standards, treatment of expenses, criteria for taxation,

multiuse of currencies, convertible debt, leasing of assets, sophisticated legal structures (consortium, assets under contract) and financial derivatives.

36. The Meth Panel intends to revise the tool, taking into account the comments received from stakeholders, with a view to recommend a final version for approval at its 46th meeting. The panel recommends to improve the tool by: (i) Including better explanation, justification and background information in the tool; (ii) Seeking to develop a table of default values for the cost of equity; and (iii) Providing possible examples of the application of the tool. The Meth Panel seeks guidance from the Board whether it should proceed in this way.

37. The Meth Panel requested the Board to take note that it discussed the note prepared by the secretariat on various issues identified while assessing the 11 approved methodologies for their consistency with the "Tool to assess the validity of the original/current baseline and to update the baseline at the renewal of a crediting period". This was in response to the request made by the Board at its 46th meeting (EB 46, para. 32). The Meth Panel will report its analysis to the Board, once concluded.

38. Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site - Version 04.

    The Meth Panel recommended the Board to approve a revision to the "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site" based on elements of the request for revision AM_REV_0189. The draft revision provides default values for the fraction of degradable organic carbon (DOC) for industrial sludge and for the decay rate (k) for sludge from pulp and paper industry. The draft revised tool is contained in annex 17.

## G. Schedule of meetings and rounds of submissions of proposed new methodologies

39. The Meth Panel confirmed that the tentative date for its 45th meeting is 9-13 August 2010, as per annex 39 of the report of the 54th meeting of the Board.

40. The Meth Panel reminded project participants that the deadline for the 36th round of submissions of proposed new methodologies is 16 August 2010. The Meth Panel reminded project participants that baseline and monitoring methodologies could be submitted at any time prior to this deadline.

41. The Meth Panel also informed project participants that the deadline for submission of requests for revision and requests for clarification to be considered at the 45th meeting to be held from 9 to 13 August 2010 was 28 June 2010, 24:00 GMT (tentative date as per annex 39 of the 54th meeting of the Board). The deadline for submissions to be considered at the 46th meeting to be held from 4 to 8 October 2010 shall be 23 August 2010, 24:00 GMT.

## H. Roster of experts

42. The Meth Panel noted the satisfactory completion of the desk reviews undertaken for the proposed new methodologies considered at the meeting.

**Annexes to the external report of the forty-fourth meeting of the Methodologies Panel**

Annex 1: Draft reformatted baseline and monitoring methodology based on NM0313

Annex 2: Note on AM0001

Annex 3: Draft revision of AM0025 - Avoided emissions from organic waste through alternative waste treatment processes

Annex 4: Draft revision of AM0034 - Catalytic reduction of $N_2O$ inside the ammonia burner of nitric acid plants

Annex 5: Draft editorial revision of AM0042 - Grid-connected electricity generation using biomass from newly developed dedicated plantations

Annex 6: Draft revision of AM0053 - Biogenic methane injection to a natural gas distribution grid

Annex 7: Draft revision of AM0057 - Avoided emissions from biomass wastes through use as feed stock in pulp and paper production or in bio-oil production

Annex 8: Draft editorial revision of AM0058 - Introduction of a new primary district heating system

Annex 9: Draft revision of AM0062 - Energy efficiency improvements of a power plant through retrofitting turbines

Annex 10: Draft revision of AM0087 - Construction of a new natural gas power plant supplying electricity to the grid or a single consumer

Annex 11: Draft editorial revision of ACM0006 - Consolidated methodology for electricity generation from biomass residues in power and heat plants

Annex 12: Draft revision of ACM0007 - Baseline methodology for conversion from single cycle to combined cycle power generation

Annex 13: Draft revision of ACM0008 - Consolidated methodology for coal bed methane, coal mine methane and ventilation air methane capture and use for power (electrical or motive) and heat and/or destruction through flaring or flameless oxidation

Annex 14: Draft revision of ACM0014 - Mitigation of greenhouse gas emissions from treatment of industrial wastewater

Annex 15: Draft revision of ACM0016 - Baseline Methodology for Mass Rapid Transit Projects

Annex 16: Draft editorial revision of ACM0018 - Consolidated methodology for electricity generation from biomass residues in power-only plants

Annex 17: Draft revision to the Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site

- - - - -