REPORT OF THE THIRTY-THIRD MEETING OF
THE METHODOLOGIES PANEL

UNFCCC Headquarters, Bonn, Germany
23 - 27 June 2008

RECOMMENDATIONS BY THE METHODOLOGIES PANEL TO THE EXECUTIVE BOARD

A. Opening of the meeting and adoption of agenda

1. The Chair of the Methodologies Panel (Meth Panel), Mr. Akihiro Kuroki opened the meeting.

2. The agenda was adopted as proposed.

3. The Meth Panel welcomed the new members Mr. Dinesh Aggarwal and Mr. Ludovic Lacrosse, who were appointed by the Board at its thirty-ninth meeting. The panel also expressed its deep appreciation for the contributions of the outgoing member Mr. Christoph Sutter.

B. Consideration of proposed new methodologies

4. The Meth Panel considered the proposed new methodologies mentioned 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 the consideration by the Executive 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 4 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the preliminary recommendation by the Meth Panel, within the timeframe of three (3) months, the case will be considered withdrawn.

7. The Meth Panel agreed on the following recommendations:

Cases	**MP 33[1] recommendation**
NM0208: Afam Integrated Gas and Power (AIGP) project	**C**
NM0235: Manufacturing of energy efficient domestic refrigerators	**A (see paragraph 8)**
NM0239: Environmental passive mitigation through the management of the swine manure by a Regional Sanitation Plant in the Santa Catarina State, Brazil	**WIP[2] (see paragraph 9)**

[1] Recommendations on the proposed new methodologies from the thirty-third meeting of the Meth 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.

Cases	MP 33[1] recommendation
NM0244: TNUIFSL - Municipal Street Lighting and Water Pumping Efficiency Improvement Project	**C**
NM0247: Manufacturing and servicing of refrigerators using low GWP refrigerant by M/s Videocon Appliances Ltd.	**A (see paragraph 8)**
NM0248: Project for useful use of landfill gas actually being flared substituting natural gas	**WIP**
NM0249: Reduction in Emissions in the Manufacture of Phospho-gypsum-based Gypcrete Wall Panel by Gypcrete Building India Ltd. (GBIL)	**C (see paragraph 10)**
NM0250: Fès Waste Water Treatment Plant (WWTP) with sludge treatment and biogas recovery & utilization for electricity generation at Fès city, Morocco	**WIP (see paragraph 11)**
NM0251: South Korea SF6 capture and recycling project	**WIP (see paragraph 12)**
NM0252: Replacement of SF6 with FK 5-1-12 as a cover gas in the magnesium industry	**C**
NM0253: Destilmex fuel ethanol project	**C**
NM0254: Recovery of CO2 from flue gases for productive use in the synthesis of urea at FERTIL's integrated ammonia-urea facility in Ruwais	**C**
NM0255: Baseline and monitoring methodology for new additions to transmission capacity between systems	**C**
NM0256: Bekasi Power 100 MW CCGT project in Indonesia	**Preliminary recommendation**
NM0257: EDSA Bus Dispatch System, Manila, Philippines	**C**
NM0258: Metrobus Insurgentes, Mexico City	**WIP (see paragraph 13)**
NM0260: Uganda Cattle Feed Project (UCFP)	**C**
NM0261|: Baoding Geothermal Space Heating Project	**Preliminary recommendation**
NM0262: Biogenic methane use as Town Gas Factory feedstock and methane emission reduction of flare efficiency	**A**
NM0263: Method for Solar Water Heaters for hot water applications	**Preliminary recommendation**

8. The panel considered a request from the Board raised at its thirty-ninth meeting in relation to the draft methodologies based on the cases NM0235 and NM0247 recommended for approval by the panel at its thirty-second meeting. The panel agreed to recommend the Board to approve these draft methodologies and to amend their applicability conditions to read that the DOE,

[2] Work in progress implies that the deliberations on these methodologies could not be concluded at the thirty-third meeting of the Meth Panel. These cases will be further considered before providing a recommendation to the Board.

performing validation of the project activity, will have to provide confirmation that no other project activity, involving the same refrigerator models, has been registered as CDM project activity, submitted for registration or uploaded for public comments. The panel also clarified that upstream emissions from the production of HFC-134a and a project refrigerant can be neglected, as their magnitude is smaller than other emissions considered under the methodology based on the case NM0247. It is also a conservative simplification since the emissions from the production of the baseline refrigerant HFC-134a are higher than the emissions from the production of the project refrigerant.

9. The panel requested the Board to take note that the panel could not conclude its discussions on the case NM0239. The proposed new methodology is applicable to project activities where the baseline animal waste management practices of multiple livestock farms are substituted by periodic manure collection and its subsequent treatment in a single central plant. The panel considered the case and noted that expert input is needed for assessing the estimation of emissions in the storage tanks. Further, the panel also noted that clarification regarding the procedure for baseline scenario selection is needed from the project proponents. The panel intends to conclude its discussions, based on the above two inputs, at its next meeting.

10. The panel considered a request from the Board raised at its thirty-ninth meeting in relation to the case NM0249. The panel at its thirty-first meeting recommended not to approve this case. The Board requested the panel to seek an opinion of an independent expert (desk reviewer) and reconsider the case based on this additional input. The requested additional desk review was undertaken. This review reiterated many of the issues raised in the final recommendation given by the panel at its thirty-first meeting. The main issue is the identification of building structures that would have been built in the baseline in the absence of the project activity. As concluded by the new desk review, the methodology needs to be more specific with respect to the nature of the building structure that would have been constructed in the baseline. More details have to be provided, for instance, on the nature of the baseline building structures that are eligible, the types of bond, the brick-laying techniques and the nature of the bricks used in those structures. After consideration of the additional desk review, the panel reiterates its recommendation not to approve to the Board.

11. The panel requested the Board to take note that it could not complete the work on the case NM0250 due to issues related to the emissions of N2O and CH4 associated with the operation of aerobic wastewater treatment plants, which require inputs from external experts.

12. The panel requested the Board to take note that it could not conclude its discussions on the case NM0251 due to unresolved issues related to the existing methods of determination of baseline SF6 consumption. The panel will further consider the case at its thirty-fourth meeting.

13. The panel requested the Board to take note that it could not conclude the work on the case NM0258 due to a number of technical issues related to modelling of transport related activities. These issues require inputs from external experts on methodological aspects of project activities in the public transport sector prior to finalization of the consideration of the case.

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

14. The Meth Panel recommended the Board to take note of the following responses to requests for clarifications and approve the following responses to requests for revisions related to

the application of approved baseline and monitoring methodologies. Twelve requests for clarification were processed prior to the Meth Panel meeting in accordance with the fast-track procedure. The requests submitted and the responses provided by the Meth Panel are made publicly available on the UNFCCC CDM web site at <http://cdm.unfccc.int/goto/MPclar> and <http://cdm.unfccc.int/goto/MPrev>, respectively. The requests for revisions that resulted in a recommendation by the Meth Panel to revise an approved methodology are reflected in section D below.

Number of the request for clarification	Approved methodology	Title of the request for clarification	MP 33 response
AM_CLA_0078	**ACM0014**	Clarification regarding the determination of COD sedimentation	**Clarified**
AM_CLA_0079	**ACM0006**	Clarification regarding the applicability of the methodology	**Clarified**
AM_CLA_0080	**AM0025**	Guidance on continued applicability of methodologies in relation to changes in project plans for a registered project	**Clarified (fast track)**
AM_CLA_0081	**AM0052**	1) Clarification regarding collecting baseline data before or following the validation process; 2) Clarification regarding upgraded power generation units covered by a DSS (project boundary definition)	**Clarified (fast track)**
AM_CLA_0082	**ACM0006**	Clarification regarding applicability of the methodology, with reference to your response F-CDM-AM-Clar_Resp_ver 01.1 - AM_CLA_0064	**Clarified**
AM_CLA_0083	**ACM0006**	1- For the renewal of a crediting period: Shall registered CDM projects be excluded in the construction of baseline scenarios? 2- In the case of expansion of an existing CDM project, which is the baseline to be considered?	**Clarified**
AM_CLA_0084	**ACM0015**	Meth applicability to greenfield projects	**WIP (see paragraph 15)**
AM_CLA_0085	**ACM0012**	Applicability of ACM0012 for waste gas that is used for steam generation in a boiler and where the generated steam replaces steam	**Clarified (fast track)**

		extracted from a steam turbine	
AM_CLA_0086	**ACM0001**	Application of the methodology to a gas distribution network	**Clarified (fast track)**
AM_CLA_0087	**ACM0008**	Clarification on the possibility of claiming CERs from displaced fossil fuels that would have been used to generate heat in local households now supplied by CMM gas	**Clarified (fast track)**
AM_CLA_0088	**AM0018**	Clarification regarding baseline emissions due to electricity consumption in AM0018	**Clarified (fast track)**
AM_CLA_0089	**ACM0008**	Technologies for "Flameless VAM Oxidation with or without the use of a catalyst"	**Clarified (fast track)**
AM_CLA_0090	**AM0047**	Clarification required regarding methodology AM0047 version 2	**Clarified (fast track)**
AM_CLA_0091	**AM0029**	Clarification of AM0029 v1.1 applicability conditions	**Clarified (fast track)**
AM_CLA_0092	**ACM0001**	Clarification on a conflict between ACM0001 and the 'Tool to determine project emissions from flaring gases containing methane' relating to the measurement of methane fraction and flow rate of landfill gas (wet or dry basis)	**Clarified**
AM_CLA_0093	**AM0036**	Applicability of AM0036 to biomass usage at a coal-fired power station	**Clarified**
AM_CLA_0094	**AM0039**	General clarification on monitoring parameters (consistency check between formulae and monitoring tables)	**Clarified (fast track)**
AM_CLA_0095	**ACM0001**	Application of '95% confidence level' and 'statistically valid number of samples' requirement	**Clarified and revised (see paragraph 19)**
AM_CLA_0096	**AM0034**	Recording of TSG and PSG	**Clarified (fast track)**
AM_CLA_0097	**ACM0002**	Request for clarification on "Definition of grid"	**Clarified**
AM_CLA_0098	**AM0062**	"Query for some expressions in AM0062 version 1"	**Clarified (fast track)**
AM_CLA_0099	**ACM0012**	Definition of project proponent and	**Clarified**

		CER claimants	**(fast track)**
CLA_TOOL_0003		Guidance on the correction of measures flow rate of the residual gas from wet basis to dry basis	**Clarified**
CLA_TOOL_0004		Measurement procedure for monitoring of FCi,j,y	**Clarified and revised (see paragraph 27)**
CLA_TOOL_0005		Applicability of MCF=0.28 (from AMS III.E v15) to tool	**Clarified and revised (see paragraph 26)**

Number of request for revision	Approved Methodology	Title of the request for revision	MP 33 recommendation
AM_REV_0071	**AM0047**	Production of biodiesel based on waste oils and/or waste fats from biogenic origin and/or oil from oilseeds for use as fuel	**WIP (see paragraph 22)**
AM_REV_0087	**ACM0006**	Time boundary constraint	**Not to revise**
AM_REV_0088	**AM0021**	Amendment to expand applicability to new adipic acid facilities	**WIP (see paragraph 16)**
AM_REV_0089	**AM0028**	Catalytic N2O destruction in the tail gas of existing Nitric Acid or Caprolactam Production Plants and newly built Nitric Acid Plants	**Not to revise**
AM_REV_0090	**AM0028**	Revision of AM0028 to include the relocated plant	**Not to revise**
AM_REV_0091	**AM0025**	Inclusion of in-situ aeration of landfills	**Not to revise**
AM_REV_0092	**AM0048**	Revision to extend AM0048 applicability to include the cogeneration project type of supplying steam and electricity to newly introduced project customers	**Not to revise**
AM_REV_0093	**ACM0006**	Revision of ACM006 in accordance with the baseline of the Paramonga project	**Not to revise**
AM_REV_0094	**ACM0011**	The purpose of the revision is to make this methodology applicable to a wider range of project activities, without hindering the conservative nature of the emission reductions achieved when applying this	**Not to revise (accept editorial revision, see paragraph 20)**

		methodology	
AM_REV_0095	**AM0065**	Replacement of SF6 with alternate cover gas in the magnesium industry	**Not to revise (see paragraph 17)**
AM_REV_0096	**ACM0003**	Revision to extend applicability to include the use of Biomass Residues before the Project Activity	**Not to revise**
AM_REV_0097	**AM0014**	Revision to extend AM0014 to include newly developing facility	**Not to revise**
AM_REV_0098	**ACM0010**	Revision to recognise a baseline scenario that is a counterfactual anaerobic treatment system that generates methane without destruction by flaring or energy production	**Not to revise**

15. The panel requested the Board to take note that it could not complete the work on the request for clarification AM_CLA_0084 due to technical issues related to the application of the methodology to greenfield cement plants, which require further inputs from external experts.

16. The panel requested the Board to take note that the panel could not conclude its discussions on the request for revision AM_REV_0088. The objective of this request is to extend applicability of AM0021 to new adipic acid facilities. The panel decided to seek expert inputs on issues related to the impact of CDM benefits for new adipic acid plant on the shift of production from Annex I to non-Annex I countries.

D. Revision to approved methodologies and methodological tools

17. **AM0065:** The panel recommended the Board not to approve the revision to the approved methodology proposed in AM_REV_0095. The panel recommended however to accept part of the proposed revision. The recommended part includes a changed procedure to estimate the baseline emission factor of SF6 based on the minimum value of emission factor for the three years prior to the start of implementation of the project activity. The draft revised approved methodology is contained in annex 4.

18. **AM0067:** The panel recommended the Board to approve the revision to the approved methodology. The revision is based on the request of the Board expressed at its thirty-eighth meeting and aims to remove the applicability condition requiring that the share of the project activity technology be less than 20 per cent of all transformers installed during the last three years prior to the start of the project activity. The draft revised approved methodology is contained in annex 5.

19. **ACM0001:** The panel recommended the Board to approve the revision to the approved methodology. The revision is made in response to the requests for clarification AM_CLA_0092 and AM_CLA_0095. The draft revision includes the following: clarification that the

measurement of both LFG flow and methane fraction in LFG have to be conducted on the same basis (wet or dry); references to be used for conversion of wet basis measurements to dry basis in case "Tool to determine project emissions from flaring gases containing Methane" is used. The revision also includes cases where periodical measurements are allowed, and guidance on performing periodical measurements for monitoring the fraction of methane in the landfill gas. The draft revised approved methodology is contained in annex 6.

20. **ACM0011:** The panel agreed to recommend the Board to approve the editorial revision to the methodology based on some elements of the request for revision AM_REV_0094, which the panel recommended the Board not to accept. The editorial revision is to correct equations 8 and 9 for calculation of the efficiency of the power plant. The draft revised approved methodology is contained in annex 7.

21. **ACM0012:** The panel recommended the Board to approve the revision to the approved methodology. The revision includes the response to the EB39 request to assess the impact of the revision carried out in the thirty-second panel meeting on the applicability of the methodology. Based on the panel's assessment, the revision includes the following: the revised definitions of waste energy and cogeneration; changed applicability for waste pressure based energy recovery activities; clarified type I and type II activities; and inclusion of different approaches for the capping of waste energy quantity and other related changes. The draft revised approved methodology is contained in annex 8.

E. **Requests from the Board to the Panel**

22. The panel requested the Board to take note that it further discussed the report of expert on the estimation of emissions from processing and production of biofuels from cultivated inputs, and noted that default emission factors from changes in soil carbon stocks following a land use change or a change in the land management should be further assessed. The panel also agreed that further expert input is needed, in particular to assess the issue mentioned above. The panel also agreed to revise AM0047 for consideration at its next meeting, taking into account expert inputs, with a view to make a recommendation to the Board for its forty-fourth meeting.

23. The panel requested the Board to take note that due to a temporary shortage of resources at the secretariat no further progress was made in relation to the ongoing revision to the approved consolidated methodology ACM0006. The panel agreed to identify a consultant to facilitate the work on this task.

F. **Issues of general guidance and Tools**

24. The Panel, in its discussion on the cases NM0208 and NM0246, acknowledges that the reality in many non-Annex I countries (particularly in Africa) is that grid electricity is often insufficient to meet electricity demand, and consumers use off-grid electricity in significant quantities to meet such unmet demand. The Panel requests the Board to take note that further work on this issue will be undertaken to develop methodological approaches to determine the conditions where construction of a grid-connected power plant can be deemed to partly or fully displace off-grid electricity, and to determine an emission factor in such cases.

25. The panel requests the Board to take note of the constraints of data and capacity in many developing countries, which hinders the application of methodologies to project activities referred to in paragraph above.

26. The panel recommends the Board to approve revision to the methodological "Tool to determine methane emissions avoided from dumping waste at a solid waste disposal site" based on the request for clarification CLA_TOOL_0005. The revision is to clarify that the tool is not applicable to stockpiles and that the approach to determine emissions from stockpiles as described in AMS-III.E cannot be used for large-scale projects. The nature of stockpiles differ from solid waste disposal sites since they have a large surface area to volume ratio and therefore anaerobic conditions are not ensured as in the case of other solid waste disposal sites. The panel clarifies that project proponents are encouraged to suggest appropriate methods that can be used for large-scale projects involving stockpiles. The draft revision to the tool is contained in annex 9.

27. The panel recommends the Board to revise the methodological "Tool to calculate project or leakage CO2 emissions from fossil fuel combustion" on the basis of the request for clarification CLA_TOOL_0004 to clarify that the usage of fixed calibrated rulers is an acceptable measurement method for monitoring the fuel consumption given that certain conditions, as explained in the proposed revised tool, are met. The draft revision to the tool is contained in annex 10.

28. **Tool for estimation of efficiency v/s load curve for baseline equipment:** The panel requested the Board to take note that it could not complete its work on the new tool and agreed to continue its consideration at the next meeting.

29. **Revision of guidelines to complete CDM-NM and CDM-PDD:** The panel requested the Board to take note that it considered public comments submitted in response to the call for public comments on the draft revision to the guidelines and provided additional guidance to the secretariat on the finalization of the document for its submission to the Board.

30. **Enhanced barrier analysis:** The panel recommended the Board to approve the proposal for an enhanced barrier test for projects that have a potentially high profitability without CER revenues. The proposal provides procedures to be applied when the project activities are highly profitable without CER revenues and only use barrier analysis for the demonstration of additionality. In order to prevent too many projects being affected by an additional screening, the enhanced barrier analysis will only apply to greenfield industrial plants, which include as CDM project activity the use of solid or liquid waste (including biomass residues), waste gas, waste heat, etc. as new feedstock for producing either a product, heat or electric power. The panel also recommended the Board to request the Small-scale Working Group to assess the potential relevance of this issue for small-scale project activities. The draft proposal is contained in annex 11.

31. **Guidance on uncertainty:** Following request of the Board at its thirty-ninth meeting, the panel continued the work on the draft guidance on uncertainty. The panel agreed to prepare and evaluate a procedure to assess the level of uncertainty of a parameter.

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

32. The panel confirmed that its thirty-fourth meeting will be held from 25 - 29 August 2008, as per annex 25 of the thirty-seventh meeting of the Board.

33. The panel reminded project participants that the deadline for the twenty-fifth round of submissions of proposed new methodologies is 17 September 2008. The panel also reminded project participants that baseline and monitoring methodologies could be submitted at any time prior to this deadline.

34. The panel also reminded the project participants that the deadline for submission of requests for revision and requests for clarification to be considered at the thirty-fourth meeting to be held from 25 - 29 August 2008 shall be 11 July 2008, 24:00 GMT.

H. Roster of experts

35. The panel noted the satisfactory completion of the desk reviews undertaken for the proposed new methodologies considered at the meeting.

External annexes to the report of the thirty-third meeting of the Meth Panel

Annex 1 - Draft reformatted baseline and monitoring methodology based on NM0235

Annex 2 - Draft reformatted baseline and monitoring methodology based on NM0247

Annex 3 - Draft reformatted baseline and monitoring methodology based on NM0262

Annex 4 - Draft revision to AM0065

Annex 5 - Draft revision to AM0067

Annex 6 - Draft revision to ACM0001

Annex 7 - Draft revision to ACM0011

Annex 8 - Draft revision of ACM0012

Annex 9 - Draft revision to the "Tool to determine methane emissions avoided from dumping waste at a solid waste disposal site"

Annex 10 - Draft revision to the “Tool to calculate project or leakage CO2 emissions from fossil fuel combustion”

Annex 11 - Proposal for enhanced barrier analysis

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