



**FRAMEWORK CONVENTION ON CLIMATE CHANGE - Secretariat
CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES -
Secrétariat**

Date: 16 October 2009
Ref: CDM-EB-50

**EXECUTIVE BOARD OF THE CLEAN DEVELOPMENT MECHANISM
FIFTIETH MEETING**

Report

Date of meeting: 13 - 16 October 2009

Location: Bangkok, Thailand

Attendance: The names of members and alternate members present at the fiftieth meeting are in bold print below. Where only the name of an alternate member is in bold print, the alternate participated as a member.

Members	Alternates
Mr. Lex de Jonge²	Mr. Pedro Martins Barata²
Mr. Kamel Djemouai¹	Mr. Samuel Adeoye Adejuwon¹
Mr. Philip M. Gwage²	Mr. Xuedu Lu²
Mr. Martin Hession ¹	Mr. Thomas Bernheim¹
Mr. Shafqat Kakakhel¹	Mr. Rajesh Kumar Sethi¹
Mr. Clifford Mahlun²	Mr. Noah Idechong²
Mr. Paulo Manso²	Mr. Hussein Badarin²
Mr. Victor Nicolae²	Ms. Diana Harutyunyan²
Mr. Hugh Sealy¹	Mr. José Domingos Miguez¹
Mr. Peer Stiansen¹	Mr. Akihiro Kuroki¹

¹ Term: Two years (term of service ends immediately before the first meeting in 2011)

² Term: Two years (term of service ends immediately before the first meeting in 2010)

NB: The term of service of a member, or an alternate member, starts at the first meeting of the Executive Board in the calendar year following his/her election and ends immediately before the first meeting of the Executive Board in the calendar year in which the term ends (see Rules of procedure of the Executive Board).

Quorum (in parenthesis required numbers): **10** (7) members or alternate members acting as members present of which **4** (3) from Annex I Parties and **6** (4) from non-Annex I Parties.

WWW broadcasting : < <http://cdm.unfccc.int/EB/Meetings> >.

**Agenda item 1. Membership issues (including disclosure of possible conflict of interest)**

1. Mr. Lex de Jonge, Chair of the Executive Board of the clean development mechanism (CDM) (hereinafter referred to as the Board) opened the meeting and asserted that the quorum requirement was met. Members and alternate members made declarations as to whether they had a conflict of interest as to any items on the meeting agenda. Specifically, Mr. Pedro Martins Barata, Mr. Lex de Jonge, Mr. Hugh Sealy and Mr. Peer Stiansen also requested that their signed statements regarding conflict of interest be attached to this report, as contained in annex 1 to this report.

2. The Board noted that the secretariat was informed that Mr. Samuel Adeoye Adejuwon, Mr. Thomas Bernheim, Mr. Martin Hession, Mr. Noah Idechong and Mr. Rajesh Kumar Sethi were unable to attend the meeting and had provided proper justification for their absence. Mr. Kamel Djemouai attended the first day of the official meeting of the Board.

Agenda item 2. Adoption of the agenda

3. The Board adopted the agenda of the meeting.

Agenda item 3. Work plan**Agenda sub-item 3 (a): Accreditation of operational entities**

4. The Board took note of the contents of the thirty-fourth progress report of the CDM Accreditation Panel (CDM-AP) and an oral report by the Chair, Mr. Martin Hession through a telephone link. The report summarized information relating to the work of the panel including the status of applications and developments with respect to desk reviews, on-site assessments, performance assessments and other accreditation related issues.

Case specific

5. The Board considered the recommendations of the CDM-AP, and agreed to withdraw the applications for accreditation for the following three entities:

- (a) E-0004 - PricewaterhouseCoopers Aarata Sustainability Certification Co., Ltd.;
- (b) E-0026 - Technology Institute of Parana (TECPAR);
- (c) E-0033 - ECA CERT, Certificacion, S.A. (ECA CERT).

6. The Board took note of the notification submitted by the CDM-AP on the successful outcome of performance assessment activities for the DOE 'Spanish Association for Standardisation and Certification (AENOR)' relating to the sectoral scope 1 for verification functions.

7. Based on the concerns raised in an outstanding non-conformity, the Board decided not to accept the application of 'Japan Consulting Institute' for re-accreditation, dated 8 May 2008 for sectoral scopes 1, 2, 4, 5, 9, 10 and 13. The Board noted that JCI's accreditation for sectoral scopes 1, 2 and 13 expires effective 16 October, 2009. The Board further noted that 'Japan Consulting Institute was not accredited for sectoral scope 9. The Board noted that JCI's accreditation for sectoral scopes 4, 5 and 10 is valid until August 2011.

8. In order to minimize any undesirable impacts on project activities already in the registration process, the Board agreed to allow Japan Consulting Institute to accomplish the work on two project activities currently under review (project ref numbers: 2647 and 2565), two project activities under correction (project ref numbers: 2601 and 2590) and three already submitted for request for registration (project ref numbers: 3038, 2926 and 3037).



General guidance

9. Due to time constraints the Board could not consider an introductory presentation on the concept of materiality and examples of applying these concepts in CDM project activities prepared by the secretariat and agreed to consider the issue at its fifty-first meeting of the Board.

10. The Board considered the recommendations of the CDM-AP related to ensuring that projects under validation and verification are not prejudiced by a suspension of the DOE, based on an input from the secretariat and CDM-AP. The document is contained as annex III to the thirty-fourth progress report of the CDM-AP. The Board took note of the analysis of the CDM-AP and the fact that some impact of a suspension of a DOE on projects is inevitable. It was recognized that systematic non-compliance(s) that lead to the suspension of a DOE can have an impact on all CDM related activities of a DOE including those project activities within the pipeline. The Board therefore agreed on the following recommendations which aimed at providing further clarity while minimizing possible unintended impacts:

- (a) To include partial suspension in regard of other than central and accredited sites;
- (b) To include partial suspension in regard of individual activities undertaken by DOEs, including actual validation and verification work;
- (c) To establish criteria for full and partial suspension;
- (d) To consider other sanctions to be applied as an alternative to a suspension.

The Board further requested the CDM-AP to undertake the revision of the CDM accreditation procedure as well as other associated documents and present these for the consideration of the Board.

The Board further requested the secretariat to intensify its work on the implementation of the framework policy to monitor non-compliance of DOEs with the view of further enhancing the quality of their work.

11. The Board agreed to the recommendations by the CDM-AP regarding options to enhance the impartiality and independence of DOEs as requested by CMP and contained as annex II of thirty-fourth progress report of the CDM-AP. The Board took note of the analysis undertaken by the CDM-AP. The CDM -AP assessment had concluded that the understanding of the AEs/DOEs with respect to impartiality and independence of validation and verification services had considerably improved with the adoption of the accreditation standard requirements in these areas. The Board further noted the recommendation of the CDM-AP that further clarifications and measures could be undertaken. In this respect, the Board agreed on the following recommendations for the consideration of the CMP:

- (a) Revision of the accreditation standards with the aim to maintain requirements only and remove the guidance elements.
- (b) Establish a separate guidance document to assist both the AE/DOEs on how to implement the requirements related to impartiality and independence and CDM-assessment teams on how to assess these requirements;
- (c) Revision of the accreditation standards to prohibit AEs/DOEs from performing the validation/verification of project activities belonging to the same client and/or PPs for which any activity, apart from third party conformity assessment but excluding testing and calibration, has been carried out by itself or a related body.

The Board requested the CDM-AP to undertake the work on the required revisions of the CDM accreditation procedure and other associated documents considering the above-mentioned



recommendations.

12. The Board considered the recommendations of the CDM-AP related to measures to facilitate the accreditation of more applicant entities from developing countries by, inter alia, reducing the costs for the necessary accreditation procedures incurred by applicant entities from developing countries, to address the shortage of validation and verification services and enhance the equitable regional distribution of CDM project activities. The Board took note of the increase in the number of applications from developing countries and some potential barriers that might explain the previous shortage of such applications. The Board took note and agreed on the following recommendations for the consideration of the CMP:

- (a) To explore further enhancement of local skills through review of provisions for allocation of certain CDM functions to non-central sites by the AEs/DOEs;
- (b) To consider reducing, and even totally subsidizing, the costs associated with the travel of accreditation team members through increased use of local assessors and / or increased use of economy class tickets for short flights;
- (c) To promote broader understanding of CDM requirements through the publication of simple, informal guides and materials on compliance with the CDM requirements;
- (d) To encourage and provide online training material in respect of the requirements and make it available to assessment team members, DOEs, AEs, and potential applicants as well as the general public;
- (e) To invite representatives of those organizations located in developing countries interested in applying for accreditation to attend workshops organized for AEs/DOEs;
- (f) To explore the possibility of collaborating with other development and capacity-building agencies to both increase local expertise and raise awareness of the CDM Accreditation Requirements in developing countries;
- (g) To invite other agencies and the secretariat to conduct further analysis of the CDM potential within regions with a limited number of CDM projects.

The Board also agreed to request the CDM-AP to conduct a comprehensive review of the regional availability, costs and timeliness of the validation and verification services in developing countries through a survey open to the DOEs and other stakeholders. The survey should also address identification of remaining barriers, including any that are cost-related. The Board requested the CDM-AP to submit its proposals for the consideration of the Board at a future meeting.

13. The Board noted that the forty-fifth meeting of the CDM-AP is scheduled for 28 - 30 October 2009.

Agenda sub-item 3 (b): Methodologies for baselines and monitoring plans

14. The Board took note of the report of the fortieth meeting of the panel on baseline and monitoring methodologies (Meth Panel), and an oral report by the Chair of the panel, Mr. Philip Gwage, on the work of the panel.

*Case specific*

15. Taking into consideration the inputs by experts (desk reviewers), the public, and the recommendations of the Meth Panel, the Board agreed to:

(a) Approve case: **ACM0016** - "Baseline Methodology for Mass Rapid Transit Projects", which was proposed as NM0258 Metrobus Insurgentes, Mexico City and NM0266 Mumbai Metro One, India and link it to scope 7 (Transport), as contained in the [annex 2](#) of this report.

(b) Approve case: **ACM0017** - "Production of biodiesel for use as fuel" based on the consolidation of: (i) Existing approved methodology AM0047, (ii) Methodology NM0228 "AGRENCO Biodiesel Project in Alta Araguaia"; (iii) Methodology NM0233 "Palm Methyl Ester – Biodiesel Fuel (PME-BDF) production and use for transportation in Thailand" and incorporating elements based on the request for revision AM_REV_0071 and link it to scope 01 (Energy Industries- Renewable and non-renewable sources) and 05 (Chemical Industries), as contained in the [annex 3](#) of this report.

16. **Not to approve cases:** NM0269, NM0272, NM0300, NM0307, NM0308, NM0315, NM0316 and NM0318 which, if revised taking into account comments, can be resubmitted but will require new expert and public input.

Responses to requests for clarification

17. The Board took note of the responses to clarifications provided by the Meth Panel on the cases requests for clarification AM_CLA_00084, AM_CLA_00156 and AM_CLA_00157, AM_CLA_00158 and AM_CLA_00159, AM_CLA_00160, AM_CLA_00161 and AM_CLA_00162, CLA_TOOL_007 and CLA_TOOL_008.

Responses to requests for revisions

18. The Board agreed to the responses prepared by the Meth Panel to revisions and the resultant revision of approved methodologies:

(a) To accept request AM_REV_0071 concerning revision of the approved methodology AM0047 to extend its applicability to production of biodiesel based on waste oils and/or waste fats from biogenic origin and/or oil from oilseeds for use as fuel. This revision was made taking into account the request by the Board at its thirty-sixth meeting (see paragraph 17, EB 36 report).

(b) Not to accept request AM_REV_0125 concerning revision of the approved methodology AM0014 to include new energy users and multiple fuel usage for project activities applicable to this methodology.

(c) Not to accept request AM_REV_0126 concerning revision of the approved methodology AM0014 to include newly developing facilities as project consumers.

(d) Not to accept request AM_REV_0154 concerning revision of the approved methodology ACM0006 to extend its applicability to greenfield power projects.

(e) To accept request AM_REV_0155 concerning revision of the approved methodology AM0072 to include the expansion of geothermal facilities into areas which are otherwise served by fossil fuel heating systems.

(f) Not to accept request AM_REV_0156 concerning revision of the approved methodology ACM0010 to incorporate a baseline scenario for a cattle colony that is a counterfactual anaerobic treatment system that generates methane without destruction by flaring or energy production.



- (g) Not to accept request AM_REV_0158 concerning revision of the approved methodology AM0028 to include the relocated chemical complex regardless of the CDM project activity.
- (h) To accept request AM_REV_0160 concerning revision of the approved methodology AM0031 to expand the applicability to situations in which electricity is used in the transport systems, in the baseline scenario and/or in the project scenario.
- (i) To accept request AM_REV_0161 concerning revision of the approved methodology AM0023 to provide two new techniques to measure the flow of gas leaks in natural gas transmission and distribution systems.
- (j) Not to accept request AM_REV_0162 concerning revision of the approved methodology ACM0003 to extend its applicability to new plants.
- (k) Not to accept request AM_REV_0163 concerning revision of the approved methodology AM0034 to allow circumstances in methodology where first abatement catalyst is installed after the installation of a new gauze pack.
- (l) Not to accept request AM_REV_0164 concerning revision of the approved methodology AM0034 to propose to exclude project campaigns from the moving average that are clearly and evidently not representative of the long term trend in campaign emission factor as envisaged in the methodology.

Revision of approved methodologies

19. The Board revised the following approved methodologies:
- (a) **AM0023:** In response to AM_REV_0161, the revision expands the permitted techniques to measure the flow of gas leaks in natural gas transmission and distribution systems, to the following two techniques: (i) the calibrated bags technique; (ii) the ultrasonic flow meters technique. These techniques are in addition to the ones already included in the methodology. The revision is contained in annex 4 of this report.
 - (b) **AM0031:** In response to AM_REV_0160, the revision expands the applicability of the methodology to situations in which electricity is used in the transport systems, in the baseline scenario and/or in the project scenario; and removed the restriction from the applicability condition related to the use of biofuels that limits its blend with fossil fuels to 3%. The revision is contained in annex 5 of this report.
 - (c) **AM0034:** The editorial revision mainly includes minor changes in the requirement on: (i) the operating hours of the baseline campaign; (ii) the average campaign length for the historic campaigns. The editorial revision is contained in annex 6 of this report.
 - (d) **AM0047:** The revision incorporates methodology cases NM0228, NM0233 and inputs from the request for revision AM_REV_0071, taking into account the request by the Board at its thirty-sixth meeting (see paragraph 17, EB 36 report). The applicability of the methodology is broadened to the production of biodiesel from oil that is produced with oil seeds from plants cultivated in dedicated plantations on degraded or degrading lands. The draft revised methodology allows for cases where dedicated plantations are in a land area included in the project boundary of one or several registered CDM A/R project activities. The methodology provides procedures to determine project emissions resulting from the cultivation of oil seeds. An excel sheet that can be used to calculate the emission factors for the GHG emissions associated with the cultivation of land to produce oil seeds for different types of crops under different climatic conditions is provided at the following weblink at UNFCCC CDM website



<http://cdm.unfccc.int/methodologies/PAmethodologies/approved.html>. The methodology, due to its consolidation with NM0228 and NM0233, will have a new nomenclature in terms of Approved Consolidated Methodology (ACM). The revision that resulted in the new approved consolidated methodology ACM0017, is contained in [annex 3](#) of this report referred above.

(e) **AM0070:** In response to AM_CLA_0157 and AM_CLA_0162, the revision includes: (i) clarity on criteria for assessing the additionality; (ii) clarity on procedures to calculate parameter ATD market; (iii) clarity on meaning of “End User” and “Buyer”; (iv) monitoring tables for two parameters which were missing in earlier version. The editorial revision is contained in [annex 7](#) of this report.

(f) **AM0072:** In response to AM_REV_0155, the revision broadens the applicability of the methodology to project activities that expand the operation of an existing geothermal heating system through the addition of extra geothermal wells. The revision is contained in [annex 8](#) of this report.

(g) **ACM0003:** In response to AM_REV_0155, the editorial revision rectifies the error in the applicability condition by inserting the word “less” before carbon intensive fuel(s) and corrects parameters in equations 13, 14 and 15. The editorial revision is contained in [annex 9](#) of this report.

(h) **ACM0005:** In response to the request from the Board (see EB 46, paragraph 31), the draft revision includes: (i) guidance on how to apply the investment analysis when such analysis is used to demonstrate additionality; (ii) including first-of-its-kind barrier and guidance on how to demonstrate such barrier; (iii) deletion of technological barriers since the project activities applicable under ACM0005 are not likely to face such barriers; (iv) investment barrier and market acceptability barrier specifying the type of documentation deemed appropriate to support the claim for these barriers. The revision is contained in [annex 10](#) of this report. The previous version of ACM0005 (version 04), which was put on hold by the 46th meeting of the Board, is withdrawn with immediate effect which means that no grace period applies to the withdrawn version of methodology.

20. The revised versions of the methodologies referred to in the paragraphs above will come into effect on 30 October 2009, 24:00 GMT, in accordance with the procedure for the revision of approved methodologies.

General guidance

21. The CDM Executive Board conducted a study on the implications of the possible inclusion of carbon dioxide capture and storage in geological formations as clean development mechanism project activities and presented a summary of possible consequences of the inclusion of carbon dioxide capture and storage in geological formations as clean development mechanism project activities in [annex 11](#) of this report. This document will be included as an annex to the EB report to CMP 5.

22. The Board considered the draft guidelines on apportioning emissions to co-product(s) and by-product(s) prepared by the Meth Panel. The Board agreed that the guidelines can be further improved to provide guidance to project proponents on the conditions of use of various options for apportioning of emissions. The Board therefore decided to limit the applicability of this guidance to its application for ACM0017, until a further revised version of the guidelines is received. The approved guidelines are contained as [annex 12](#) to this report.

23. The Board considered the draft guidelines for objective demonstration and assessment of barriers developed by the Meth Panel. The Board agreed to approve the guidelines with a request to the secretariat that it should analyse the implications of these guidelines on the projects requesting registration and report



back to the Board at a future meeting. The approved guidelines are contained as [annex 13](#) to this report.

24. The Board considered a revision to the “Tool to calculate the emission factor for an electricity system” in order to incorporate methodological approaches to estimate emission reductions for project activities that affect the operation of off-grid generation capacity. The Board agreed to approve the revision and further requested the Meth Panel to evaluate, based on feedback on its application in the projects, whether there is a need to enhance the usability and attractiveness of the tool for the project proponents. The revised tool is contained as [annex 14](#) to this report.

25. The Board considered the new tool “Tool to determine the remaining lifetime of equipment “, developed by Meth Panel. The tool provides guidance to determine the remaining lifetime of baseline or project equipment. The tool may, for example, be used for project activities which involve the replacement of existing equipment with new equipment or which retrofit existing equipment as part of energy efficiency improvement activities. The Board requests the Meth Panel to refer this tool appropriately in the methodologies to which it is applicable. The tool is contained as [annex 15](#) to this report

26. The Board considered a synthesis summary of the analysis on the performance of the process of considering methodology-related submissions including a work programme of specific actions to be taken based on this analysis, submitted as annex 2 of annotations to the fiftieth meeting of the Board. The Board agreed on all the actions included in this analysis and further took note that the secretariat will submit relevant draft revised procedures for consideration at a future meeting, based on the improvement proposals accepted by the Board. These include the procedures for the submission and consideration of a proposed new methodology, procedures on requests for revisions and requests for clarifications of approved methodologies. The Board further clarified that these actions are applicable to the work of Methodologies Panel, the Small Scale Working Group and the Afforestation and Reforestation Working Group. The Board agreed on the priority of the matters to be considered by the Panel and Working Groups and requested the chairs of these bodies to submit the programme of their work for the review and approval of the Board, at an interval of every semester.

27. In the context of the discussions on the projects under registration using the approved consolidated methodology ACM0012, the Board requested the Meth Panel to provide further clarity, through editorial revision, in the section of methodology where the most plausible baseline scenario is identified and it is stated that the methodology is only applicable if the baseline plant identified is the existing fossil fuel fired plant.

28. In the context of a letter from one of the DNAs, the Board requested the Meth Panel to consider the following language from version 6.0 of ACM0002 and use it appropriately to revise the "Tool to calculate the emission factor for an electricity system":

"Dispatch data analysis should be the first methodological choice. Where this option is not selected project participants shall justify why and may use the simple OM, the simple adjusted OM or the average emission rate method taking into account the provisions outlined hereafter."

This option of calculating the operating margin emission factor using the dispatch data analysis method should be considered particularly if the necessary data is available.

Further schedule

29. The Board noted that the forty-first meeting of the panel will be held from 19 - 23 October 2009.

30. The Board reminded project participants that the deadline for the thirty-first round of submissions of proposed new methodologies is 26 October 2009. The Board also reminded project participants that



new baseline and monitoring methodologies could be submitted at any time prior to this deadline.

Agenda sub-item 3 (c): Issues relating to CDM afforestation and reforestation project activities

31. The Board took note of the report on the work of the twenty-fifth meeting of the A/R WG and an oral report by its Chair, Mr. José Domingos Miguez, on the work of the group.

Revision of approved methodologies

32. The Board revised the approved methodology AR-AM0002 “Restoration of degraded lands through afforestation/reforestation”. The revised approved methodology is contained in [annex 16](#) to this report.

33. The Board revised the approved methodology AR-AM0004 “Reforestation or afforestation of land currently under agricultural use”. The revised approved methodology”None, as contained in [annex 17](#) to this report.

34. The Board revised the approved methodology AR-AM0005 “Afforestation and reforestation project activities implemented for industrial and/or commercial uses”. In addition to the application of the guidance referred to in paragraph 37 of the forty-fourth report of the EB, the revision applied the simplified design proposed in the approved methodology AR-ACM0001. The revised approved methodology is contained in [annex 18](#) to this report.

35. The Board revised the approved methodology AR-AM0006 “Afforestation/Reforestation with trees supported by shrubs on degraded land”. The revised approved methodology is contained in [annex 19](#) to this report.

36. The Board revised the approved methodology AR-AM0010 “Afforestation and reforestation project activities implemented on unmanaged grassland in reserve/protected areas”. The revised approved methodology is contained in [annex 20](#) to this report.

37. The revised versions of the methodologies referred to in the paragraph 32 to 36 above will come into effect on 30 October 2009, 24:00 GMT, in accordance with the procedure for the revision of approved methodologies.

38. The Board agreed that the revisions mentioned in paragraphs 32 - 36 above shall not affect project activities that are submitted for registration within 18 months of the effective date of the revision.

General guidance

39. The Board approved the guidelines on conditions under which GHG emissions from removal of existing vegetation due to site preparation are insignificant, as contained in [annex 21](#) to this report.

40. The Board approved a revision to the approved A/R methodological tool “Estimation of GHG emissions from clearing, burning and decay of existing vegetation due to implementation of a CDM A/R project activity”, as contained in [annex 22](#) to this report.

41. The Board approved a revision to guidelines on conservative choice of default data for estimation of biomass stocks and change in woody vegetation, including a change of its title from “Guidelines on conservative choice of data when estimating biomass stocks and change in woody vegetation” to “Guidelines on conservative choice and application of default data in estimation of the net anthropogenic GHG removals by sinks”. The revised guidelines are contained in [annex 23](#) to this report.



42. The Board conducted a study on the implications of the possible inclusion of reforestation of lands with forests in exhaustion as CDM project activities and agreed to the recommendation contained in [annex 24](#) to this report. This document will be included as an annex to the EB report to CMP 5.

43. The Board noted that the twenty-sixth meeting of the A/R WG will be held from 28 - 30 October 2009.

44. The Board reminded project participants that the deadline for the twenty-fourth round of submissions of proposed new A/R methodologies is 26 October 2009. The Board also reminded project participants that new baseline and monitoring methodologies could be submitted at any time prior to this deadline.

Agenda sub-item 3 (d): Issues relating to small-scale CDM project activities

45. The Board took note of the report on the work of the twenty-second meeting of the working group to assist the Board in reviewing proposed methodologies for small-scale CDM project activities (SSC WG) and of an oral report by its Vice Chair, Mr. Peer Stiansen, on the work of the group.

Case specific

46. The Board approved a new small-scale methodology “AMS-III-AF Avoidance of methane emissions through excavating and composting of partially decayed municipal solid wastes (MSW)” assigned to sectoral scope 13 as contained in [annex 25](#) of this report. The methodology is for methane avoidance from closed landfill through sequential measures including pre-aeration, excavation, separation and composting. Pre-aeration is only aiming to create a safe operation environment for subsequent excavation and separation of inert and non inert materials. Excavating and composting of the non-inert material are the key measures to realize methane avoidance in this methodology.

47. The Board approved a new small-scale methodology “AMS-III.AG Switching from high carbon intensive grid electricity to low carbon intensive fossil fuels” assigned to sectoral scope 01 as contained in [annex 26](#) of this report. The methodology is applicable for switching from grid electricity to a single low carbon intensive energy source in existing industrial, residential, commercial, and institutional or energy producing applications (e.g., switch from fuel oil based captive electricity generation complemented by a grid electricity import to a natural gas based electricity generation).

48. The Board approved a new small-scale methodology “AMS-III.AH Shift from high carbon intensive fuel mix ratio to low carbon intensive fuel mix ratio” assigned to sectoral scope 01 as contained in [annex 27](#) of this report. The methodology is for project activities that results in increased share of low GHG intensive fossil fuel in an elemental process of an industrial, residential, commercial, and institutional or electricity generation application that uses a mix of fossil fuel.

Revisions of approved methodologies

49. The Board agreed to the revised approved small-scale methodologies:

- (a) “AMS-III.Y Methane avoidance through separation of solids from wastewater or manure treatment systems”, to broaden the applicability of AMS-III.Y to allow the usage of flocculent in the pre-separation phase to improve the efficiency of the subsequent mechanical solid-liquid separation. The relevant procedures to take into account the project and leakage emissions from the use of flocculants are included accordingly. The revised methodology is contained in [annex 28](#) of this report;
- (b) “AMS-I.D Grid connected renewable electricity generation”, to include procedures for the consideration of power density of small scale hydropower projects and project emissions related



to that, as contained in [annex 29](#) of this report.

50. The revised versions of the SSC methodologies referred to in the paragraph above will come into effect on 30 October 2009, 24:00 GMT in accordance with the procedure for the revision of approved SSC methodologies.

General guidance

51. The Board agreed to approve the general guidelines for sampling and surveys for SSC project activities as contained in [annex 30](#) to this report. The guidelines take into account the public inputs and expert inputs. While the focus of the guidelines is on end-use energy efficiency and renewable energy applications, its application is not limited to these applications alone. The guidelines elaborate the sampling documentation requirements and the sampling plan evaluation criteria. Sampling precision and confidence requirements for SSC project activities are also specified. Guidance on sampling application and sampling practices are included. The Board requested the secretariat to update the relevant sections of general guidance to SSC methodologies to reflect the approval of this guideline. The Board further requested the SSC WG to continue to work on developing examples to illustrate the application of sampling methods for SSC project activities and make a recommendation to the Board. It also requested the Methodologies Panel to assess the options to apply these guidelines for large scale CDM project activities if necessary with any due modifications.

Further schedule

52. The Board noted that the twenty-third meeting of the SSC WG will be held from 27 - 30 October 2009.

Agenda sub-item 3 (e): Matters relating to programme of activities

53. The Board noted the status of registration of programmes of activities as single CDM project activities.

Agenda sub-item 3 (f): Matters relating to the registration of CDM project activities

54. The Board took note that 1854 CDM project activities have been registered by 16 October 2009. The status of requests for registration of project activities can be viewed on the UNFCCC CDM website at <http://cdm.unfccc.int/Projects/>.

Case specific

55. In accordance with the procedures for review as referred to in paragraph 41 of the CDM modalities and procedures, the Board considered a request for review of 38 requests for registration.

56. The Board agreed to register the project activity "Hebei Chengde Fengze Wind Farm Project" (1715), taking note of the initial comments of the DOE (DNV) and the project participant. While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark.

57. The Board agreed to register, as corrected, the project activity "Srijaroen Palm Oil Wastewater Treatment Project in Krabi Province, Thailand" (2620) if the revised PDD and the revised validation report submitted by the project participant and the DOE (JQA) in response to the request for review are displayed on the UNFCCC CDM website.



58. The Board agreed to register with corrections the project activities:

- (a) “Hunan Taoyuan Hui ren xi Hydropower Project” (2118) if the project participant and the DOE (DNV) submit a revised PDD and a corresponding validation report which incorporate the information submitted in response to the request for review regarding the suitability of the assumed annual operational hours and monitoring of electricity imports from the grid.
- (b) “Dafosi Coal Mine Low Concentration Coal Mine Methane Power Generation Project” (2428) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which incorporate the information submitted in the response to the request for review regarding the validation of the input values, the benchmark and the baseline conditions and alternatives.
- (c) “Hebei Fengning Luotuogou 1st Phase Wind Power Project” (2462) if the project participant and the DOE (DNV) submit a revised PDD and a corresponding revised validation report which incorporate the information submitted in response to the request for review regarding the suitability of the input values to the investment analysis and the justifications for not conducting a site visit. While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark.
- (d) “Guizhou Kaiyang Nanjiang Hydropower Station Project” (2501) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding revised validation report which incorporate the information submitted in response to the request for review regarding the validation of the input values to the investment analysis including the plant load factor and the electricity generated by the project.
- (e) “Jiangsu Dongling Wind Farm Project” (2532) if the project participant and the DOE (KEMCO) submit a revised PDD and a corresponding validation report which:
 - (i) Incorporate the information submitted in response to the request for review regarding suitability of the input values to the investment analysis, baseline alternatives and monitoring of auxiliary electricity consumption; and
 - (ii) Revise the grid emission factor to be based on data which was available at the start of global stakeholders’ consultation.
 - (iii) While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark.
- (f) “Bangna Starch Wastewater Treatment and Biogas Utilization Project” (2556) if the project participant and the DOE (TÜV-NORD) submit a revised PDD and a corresponding validation report which incorporate the information submitted in response to the request for review, regarding the validation of the prior consideration of CDM and global stakeholder consultation. In doing this the validation report shall include all the missing pages and information (e.g. Annexes 2, 4 and 5).



(g) “Heilongjiang Wangkui 50MW Level Biomass Cogeneration Project” (2561) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding revised validation report which incorporate the information submitted in response to the request for review, regarding the barrier analysis, benchmark analysis and present the project activity start date as the date of the first investment decision, i.e. 12 May 2006.

(h) “Inner Mongolia Ximeng Zheligentu Wind Farm Phase I Project” (2566) if the project participant and the DOE (BVC) submit a revised PDD and a corresponding revised validation report which incorporate the amended monitoring plan submitted in response to the request for review. While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark.

(i) “Sichuan Xiaolongmen Hydropower Project” (2590) if the project participant and the DOE (JCI) submit a revised PDD and a corresponding revised validation report which incorporate the information submitted in response to the request for review, regarding the validation of the prior CDM consideration, project costs invested prior to project re-starting, evidence for project stoppage, coefficient of effective electricity and common practice analysis.

(j) “Fujian Pingnan Liyudang Hydropower Project” (2601) if the project participant and the DOE (JCI) submit a revised PDD and a corresponding revised validation report which incorporate the information submitted in response to the request for review, in particular:

- (i) The annual operating hours assumed;
- (ii) The 85% coefficient of effective electricity, the 1% internal consumption and the 2% transmission loss applied; and
- (iii) The electricity tariff assumed in the PDD.

(k) “Yunnan Shangri-La Shiwang River Hydropower Station” (2608) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which incorporate:

- (i) The additional information submitted in response to the request for review regarding the suitability of the electricity tariff, PLF, 95% coefficient of effective power supply and income tax deduction applied to the investment analysis; and
- (ii) A revised investment analysis which reflects the income tax starting on the year in which the cash flow occurs or actual payment is made.

(l) “AVN08-S-01, Methane Recovery and Biogas Utilization Project, Nghe An Province, Vietnam” (2636) if the project participants and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which:

- (i) Incorporate the information submitted in response to this request for review regarding: the project start date, the *ex-ante* grid emission factor and the monitoring of $Q_{y,ww}$; and
- (ii) Further validate that the baseline wastewater treatment system is adequate for the increase in starch production to 43,800 tonnes per year, that the volume of wastewater treated will be recorded at least on a daily basis and confirms the correct value for the *ex-ante* grid emission factor.



The DOE and the project participant should also amend the monitoring of the project emissions due to electricity and fossil fuel consumption in line with the applicable methodology and provide a separate table for the monitoring of the fossil fuel used on-site in section B.7.1 of the PDD.

(m) “AVN08-S-02, Methane Recovery and Biogas Utilization Project, Nghe An Province, Vietnam” (2637) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which:

(i) Incorporate the information submitted in response to this request for review regarding: the project start date, the *ex-ante* grid emission factor; and

(ii) Further confirm that: (a) the value of the *ex-ante* grid emission factor referred to in the validation report and in the PDD is correct, (b) the volume of wastewater treated will be recorded at least on a daily basis, and (c) the baseline wastewater treatment system is adequate for the increase in starch production to 120 tonnes per day.

The DOE and the project participant should also amend the monitoring plan in order to incorporate the monitoring of the quantity of air/thermal oil heated by the burner, specific heat content of air/thermal oil and hours of operation of the burner; and the project emissions due to electricity consumption in line with the applicable version of the methodology.

(n) “VN08-WWS-04, Methane Recovery and Biogas Utilization Project, Lao Cai Province, Vietnam” (2639) if the project participants and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which:

(i) Incorporate the information submitted in response to this request for review regarding: the project start date, the *ex-ante* grid emission factor and the baseline wastewater treatment system; and

(ii) Further validate that the volume of wastewater treated will be recorded at least on a daily basis and confirm the correct value for the *ex-ante* grid emission factor.

The DOE and the project participants should also amend the monitoring of the project emissions due to electricity and fossil fuel consumption in line with the applicable methodology and provide a separate table for the monitoring of the fossil fuel used on-site in section B.7.1 of the PDD.

(o) “VN08-WWS-05, Methane Recovery and Biogas Utilization Project, Quang Tri Province, Vietnam” (2640) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which:

(i) Incorporate the information submitted in response to this request for review regarding: the project start date, the *ex-ante* grid emission factor; and

(ii) Further validate that the baseline wastewater treatment system is adequate for the increase in starch production to 36,000 tonnes per year and confirm the correct value for the *ex-ante* grid emission factor.

The DOE and the project participants should also amend the monitoring plan in order to incorporate the monitoring of the quantity of air/thermal oil heated by the burner, specific



heat content of air/thermal oil and house of operation of the burner; and the monitoring of the project emissions due to electricity and fossil fuel consumption in line with the applicable methodology and provide a separate table for the monitoring of the fossil fuel used on-site in section B.7.1 of the PDD.

(p) “ID08-WWP-11, Methane Recovery in Wastewater Treatment, Jambi, Indonesia” (2662) if the project participant and the DOE (DNV) submit a revised PDD and a corresponding validation report which:

- (i) Incorporate the information submitted in response to this request for review regarding the baseline wastewater system and the monitoring of Q_{y,ww}; and
- (ii) Further validate that the non compliance with the COD discharge standards resulted from an equipment malfunction which has been fixed and since then the standards have been constantly met, that the baseline wastewater treatment is adequate for the desired palm oil production of 45 tonnes per hour, and that the volume of wastewater treated will be recorded at least on a daily basis.

The DOE and the project participant should also amend the monitoring of the project emissions due to electricity and fossil fuel consumption in line with the applicable methodology and provide a separate table for the monitoring of the fossil fuel used on-site in section B.7.1 of the PDD.

(q) “Biogas Project, Olmeca III, Tecún Uman” (2667) if the project participant and the DOE (SGS) submit a revised PDD and a corresponding validation report which incorporate the information submitted in response to the request for review regarding the application of 10% contingency in the investment cost, and the 7.5% yearly escalation rate to O&M and staff costs but not to the electricity tariff.

(r) “Changzhou Panshi Cement Waste Heat Recovery for Power Generation Project” (2675) if the project participant and the DOE (TÜV-SÜD) submit a revised PDD and a corresponding validation report which:

- (i) Incorporate the additional information submitted in response to the review regarding the validation of input values, including the tariff, and
- (ii) Correct the typographical error in the validation report regarding the project start date (i.e., that it is after the GSC) and the name of the PP.

While the barrier analysis has not been fully substantiated, the Board considered that the project is additional based on the investment analysis.

(s) “Hubei Yichang Qilinguan Shaguandou Hydropower Station” (2707) if the project participant and the DOE (DNV) submit a revised PDD and a corresponding validation report which incorporate:

- (i) Monitoring of the electricity imports and exports of the project activity separately;
- (ii) Calculation of net electricity exports to the grid using monitored electricity imports and exports data of the project activity; and
- (iii) The information submitted in response to the request for review regarding the emission factor and de-bundling.



59. After the submission of the specified documentation, the secretariat, in consultation with the Chair of the Board, will check the revised documentation before the activity is displayed as registered.
60. The Board agreed to undertake a review of the project activity:
- (a) "Hebei Shangyi Manjing North Wind Farm Project" (1792) submitted for registration by the DOE (DNV) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 31](#) to this report;¹
 - (b) "Liaoning Faku Heping Wind Power Project" (1924) submitted for registration by the DOE (DNV) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 32](#) to this report;²
 - (c) "Liaoning Faku Baijiagou Wind Power Project" (2123) submitted for registration by the DOE (DNV) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 33](#) to this report;³
 - (d) "Inner Mongolia Xinghe Hangtian Wind Farm Project" (2227) submitted for registration by the DOE (BVC) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 34](#) to this report;
 - (e) "CERTEL Cooperativa Regional de Eletrificação Teutônia Ltda - Small Hydropower" (2375) submitted for registration by the DOE (SGS) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 35](#) to this report;⁴
 - (f) "Controlled combustion of municipal solid waste and sewage sludge and energy generation in Shaoxing City, People's Republic of China" (2446) submitted for registration by the DOE (JQA) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 36](#) to this report;⁵
 - (g) "Gramacho Landfill Gas Project" (2548) submitted for registration by the DOE (SGS) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 37](#) to this report;
 - (h) "Sichuan Tiejue 25 MW Hydro Power Project" (2565) submitted for registration by the DOE (JCI) and that the scope of this review is relating to issue associated with validation requirements, as contained in [annex 38](#) to this report;
 - (i) "Inner Mongolia Jingneng Saihan Wind Farm Phase I Project" (2567) submitted for registration by the DOE (BVC) and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 39](#) to this report;
 - (j) "Heilongjiang Fujin 48 MW Wind Power Project" (2573), submitted for registration by the DOE (TÜV-NORD), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 40](#) to this report;
 - (k) "Guohua Wulate Zhongqi Phase I 49.5 MW Wind farm Project" (2597), submitted for registration by the DOE (BVC), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 41](#) to this report;
 - (l) "Project JBS S/A - Slaughterhouse Wastewater Aerobic Treatment - Vilhena Unit" (2610), submitted for registration by the DOE (TÜV-SÜD), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 42](#) to this report;⁶



- (m) “Methane Recovery Project of Fuyu Huihai Alcohol Co., Ltd.” (2647), submitted for registration by the DOE (JCI), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 43](#) to this report;⁷
- (n) “Tianjin Zhenxing Cement Waste Heat Recovery for Power Generation Project” (2668), submitted for registration by the DOE (TÜV-SÜD), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 44](#) to this report;⁸
- (o) “Xiangfan Huanxin Cement 7.5 MW Waste Heat Recovery as Power Project” (2671), submitted for registration by the DOE (TÜV-SÜD), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 45](#) to this report;⁹
- (p) “Tianjin TEDA Sewage Methane Recover Project” (2676), submitted for registration by the DOE (TÜV-SÜD), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 46](#) to this report;¹⁰
- (q) “10 MW bundled Luni.III & Luni.II hydroelectric projects for a grid system at Sri Sai Krishna Hydro Energies private Limited in Kangra District, Himachal Pradesh” (2698), submitted for registration by the DOE (SGS), and that the scope of this review is relating to issues associated with validation requirements, as contained in [annex 47](#) to this report;¹¹
61. The Board agreed on the nomination of the members of the review teams for the above. The review teams may call on outside expertise in consultation with the Chair of the Board, as appropriate.
62. In accordance with the procedures for review as referred to in paragraph 41 of the CDM modalities and procedures, the Board considered the recommendations of the review teams for 13 of the project activities which were placed “Under review” at the forty-eighth meeting of the Board.
63. In accordance with paragraphs 17 and 18 (a) of the procedures mentioned in paragraph 62, the Board agreed to register the project activity "Shandong Laizhou phase I Wind Power Project" (2530) submitted for registration by the DOE (BVC). While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark.
64. In accordance with paragraphs 17 and 18 (b) of the procedures mentioned in paragraph 62, the Board agreed to register, subject to satisfactory corrections, the project activities:
- (a) "Nanchang Maiyuan Landfill Gas Recovery and Utilisation Project" (1745) if the PP and the DOE (DNV) submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the review team’s question regarding the suitability of input values to the investment analysis, in particular, that the:
- (i) Following operating costs: “construction of dams and roads”, “waste compaction” and “leachate drainage and maintenance”, are applicable to the project activity itself and not to the operation of the landfill, in which case such costs would not have been incurred in the baseline scenario; and
- (ii) Values assumed for such costs are appropriate;
- (b) "Heilongjiang Huanan Hengdaishan East (II) Wind Power Project" (2124) if the project participant and DOE (DNV) submit a revised PDD and the corresponding validation report which incorporate the earlier response to the request for review and further substantiate the suitability of the tariff as a means of demonstrating the additionality of the project activity. In undertaking these



corrections the project participant and the DOE should note the Board's concerns regarding the suitability of the tariff as indicated in EB49 report, paragraph 48;

(c) "Heilongjiang Wuerguli Wind Power Project" (2152) if the PP and DOE (BVC) submit a revised PDD and the corresponding validation report which further substantiate the suitability of the tariff as a means of demonstrating the additionality of the project activity. In undertaking these corrections the PP and the DOE should note the Board's concerns regarding the suitability of the tariff as indicated in EB49, paragraph 48;

(d) "Inner Mongolia Meiyaoshan Wind Farm Project" (2381) if the PP and the DOE (BVC) submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the review team's questions regarding the "other O&M fee" considered in the investment analysis. While the concern of the Board on the trend of tariff for similar projects exporting electricity to the same grid, as per EB 49 paragraph 48, has not been fully substantiated, the Board considers the project activity additional as with the application of the highest reported tariff in the province, the project IRR does not cross the benchmark;

(e) "Inno-Kwantas Mewah - Palm Oil Mill Waste Recycle Scheme, Malaysia" (2427) if the PP and the DOE (SGS) submit a revised PDD and the corresponding validation report which incorporate the additional information submitted in response to the review team's questions regarding the:

- (i) Appropriateness of the input values such as the amount of FFB to be produced and the assumed production and operating costs for the first year;
- (ii) Escalation in the operating costs;
- (iii) Compost price;
- (iv) Suitability of the benchmark; and
- (v) Sensitivity analysis, that is, considering additional parameters linked with the fertilizer revenues (compost production) and the production costs;

(f) "BFG-fired Power Generation Project in Baosteel Co Ltd., Shanghai, P. R. China" (2461) if the PP and the DOE (DNV) submit a revised PDD and the corresponding validation report which:

- (i) Conduct the investment analysis for baseline including the capacity/demand charge as a cost that has been paid in the baseline in accordance with paragraph 7, step 2 of the Tool for the demonstration and assessment of additionality version 5.2;
- (ii) Further clarify why the BFG can not be used in the new facilities (new advanced heat rolling steel plant and a new advanced cool rolling steel plant) that have been installed parallel to the 4#BF; and
- (iii) Include the information submitted in response to the review team's questions regarding availability of surplus BFG to the project activity.

(g) "Sintex 7.5 MW Natural gas based package cogeneration project, Gujarat – India" (2471) if the PP and the DOE (DNV) submit a revised PDD and the corresponding validation report which incorporate the information submitted in the response to the review team's questions regarding the additionality of the project activity, which is considered on the investment analysis presented as per Option 2 of AM0014, version 4;



- (h) "Utilization of waste gas heat for power generation" (2504) if the PP and the DOE (TUV-NORD) submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the review team's questions regarding the suitability of the input values to the investment analysis;
65. In accordance with paragraphs 17 and 18 (c) of the procedures mentioned in paragraph 62, the Board could not register the following project activities:
- (a) "Waste Gas based Power Generation Project at Ankit Metal & Power Limited" (2127) as the project participant and the DOE (DNV) have failed to substantiate the application and the determination of the baseline scenario as the baseline selected is a new captive coal based power plant whereas the methodology limits the baseline scenario for power generation to be an specific existing power plant or grid import;
- (b) "Pure-low Temperature Waste Heat Recovery for Power Generation (2×7 MW) in Guangdong Tapai Cement Co., Ltd" (2445) as the project participants and the DOE (JQA) have failed to substantiate the additionality of the project activity via either:
- (i) Barrier analysis as the: the entire project cost is covered through the equity fund, which raises concern on the credibility of investment barrier, in particular, the access to finance; the presented technological barriers are generic in nature; and the first-of-its-kind barrier is not supported by reliable evidences; or
- (ii) Investment analysis as the means of selection of the benchmark is not in accordance with the Tool for the demonstration and assessment of additionality, version 5.2;
- (c) "Waste Heat Recovery based Captive Power Project of Adhunik Metaliks Limited" (2507) as the project participants and the DOE (SGS) have failed to substantiate the application and the determination of the baseline scenario as the baseline selected is a new captive coal based power plant whereas the methodology limits the baseline scenario for power generation to be an specific existing power plant or grid import;
- (d) "Bhushan Power and Steel Limited–Waste Heat Recovery based Captive Power Project" (2519) as the project participant and the DOE (SGS) have failed to substantiate the application and the determination of the baseline scenario as the baseline selected is a new captive coal based power plant whereas the methodology limits the baseline scenario for power generation to be an specific existing power plant or grid import.

Registration procedure/General guidance

66. The Board considered the revised "Procedures for processing and reporting on validation of CDM project activities" and agreed to approve the revised procedures as contained in [annex 48](#) to this report.
67. The Board, to improve the transparency of decisions, requested the secretariat to publish information notes to provide backgrounds to and explanations of Executive Board decisions on requests for registration for which the Board agreed to not register, and to commence a work programme to provide information notes on other rulings on requests for registration considered through the review process.
68. The Board took note of a summary of the major issues and their justification that have triggered request for review.

**Agenda sub-item 3 (g): Matters relating to the issuance of CERs and the CDM registry**

69. The Board took note that 335,319,007 CERs have been issued as of 16 October 2009 and that the secretariat, in its capacity as the CDM registry administrator, continues to process requests for opening of holding accounts and for forwarding of CERs. The status of requests for issuance of CERs can be viewed on the UNFCCC CDM website at <<http://cdm.unfccc.int/Issuance>>.

Case specific

70. In accordance with the procedures for review as referred to in paragraph 65 of the CDM modalities and procedures, the Board considered a request for review of ten requests for issuance.

71. In accordance with paragraph 10 of these procedures the Board agreed, subject to a check by the secretariat of the revised documentation and in consultation with the Chair of the Board, to instruct the CDM registry administrator to issue CERs for:

- (a) "Brazil NovaGerar Landfill Gas to Energy Project" (0008), if the DOE (SGS) submits a revised verification report which includes the new Forward Action Request regarding revision of the monitoring plan and the correction on the Serial No. of meter GA 0880 in Adrianopolis site.
- (b) "3.5 MW Rice Husk based Cogeneration Project at Oswal Woolen Mills Ltd." (0118), if the project participant and the DOE (DNV) submit a revised monitoring report and a corresponding verification report which incorporate:
 - (i) Clarification on the electricity generation on 14 July submitted in response to the request for review and correction on the first outage period of the plant;
 - (ii) Clarification on the calibration of the meters for gross electricity generation, auxiliary consumption and net electricity export; and
 - (iii) Corrected outage hours in the monitoring report.
- (c) "Agua Fresca Multipurpose and environmental services project" (0122), if the project participant and the DOE (ICONTEC) submit a revised monitoring report and a corresponding revised verification report which include:
 - (i) Clarification that no grid electricity imported for the project construction; and
 - (ii) Application of 0.477 tCO₂/MWh ex-ante grid emission factor in emission reduction calculation in accordance with the monitoring plan;
 - (iii) A new request for issuance form corresponding to the corrected certified emission reductions.

The Board further noted that a revision of monitoring plan should be submitted to i) remove the requirement to monitor electricity imported for project construction and ii) contain Attachment 7 prior to the next request for issuance.

- (d) "Yuzaikou Small Hydropower Station" (0126), if the project participant and the DOE (DNV) provide a revised monitoring report and a corresponding verification report which include the clarification on the higher electricity generation for June and July 2008 as provided in response to the request for review.
- (e) "Catalytic N₂O destruction project in the tail gas of three Nitric Acid Plants at Hu-Chems Fine Chemical Corp." (0765), if the project participant and the DOE (DNV) submit a revised



monitoring report and a corresponding verification report which include the clarification regarding periodical check of N₂O concentration with gas chromatography provided in response to the request for review.

Further the Board noted that a revision of monitoring plan should be submitted in order to account for checking the N₂O concentration by periodic sampling using gas chromatography prior to the next request for issuance.

(f) "13.4 MW bundled wind power project in Chithradurga, Karnataka" (1021), if the DOE (DNV) submits a revised verification report which includes the clarification on the electricity generation seasonal variation provided in response to the request for review.

(g) "Substitution of coal with jute biomass residue (caddies) in the steam generating boiler for use on-site" (1059), if the revised verification report submitted by the DOE (TÜV Nord) which contains a Forward Action Request to check the installation of the dedicated steam flow meter to measure the steam generation by the coal fired boiler or the dismantlement of the coal fired boiler during the next periodic verification provided in response to the request for review is displayed in the UNFCCC CDM website.

72. In accordance with the provisions of paragraph 10 of these procedures, referred in paragraph 70, the Board agreed to undertake a review of the request for issuance of CERs and to appoint members of the review team for:

(a) "Vaturu and Wainikasou Hydro Projects" (0089), submitted by the DOE (TÜV-SÜD), and that the scope of this review is relating to issues associated with verification requirements, as contained in [annex 49](#) to this report;

(b) "NorthWind Bangui Bay Project" (0453), submitted by the DOE (AENOR) and that the scope of this review is relating to issues associated with verification requirements, as contained in [annex 50](#) to this report.¹²

(c) "5 MW Renewable Energy Project for a Grid system, India at Beas Nallah in Kullu district of Himachal Pradesh by M/s Sai Engineering Foundation" (0943), submitted by the DOE (DNV) and that the scope of this review is relating to issues associated with verification requirements, as contained in [annex 51](#) to this report.

73. The Board agreed on the nomination of the members of the review teams for the above. The review teams may call on outside expertise in consultation with the Chair of the Board, as appropriate.

74. In accordance with the procedures for review as referred in paragraph 70, the Board considered the recommendation of the review team for two requests for issuance which were placed "Under review" at the forty-ninth meeting of the Board.

75. The Board agreed to instruct the CDM registry administrator to issue CERs, subject to satisfactory corrections, for "El Molle – Landfill gas (LFG) capture project" (0170) submitted by the DOE (SGS), if the project participant and DOE submit a revised monitoring report and a corresponding revised verification report which incorporate;

(a) Clarification on the monitoring and verification of the grid emission factor in 2008 submitted in response to the review; and

(b) Clarification on the flare efficiency including flare temperature and the quantity of LFG captured and flared submitted in response to the request for review.



76. The Board could not approve the requests for issuance of CERs for "Mondi Richards Bay Biomass Project" (0966), submitted by the DOE (DNV) for the monitoring period 01/10/2005-31/03/2007, because:

- (a) It cannot be fully justified that the application of the literature values for biomass moisture content for Year 1 is conservative as they were compared to values which were based only on three measurements of the moisture content for bark and one measurement for chipping waste in Year 2, considering that the applied methodology requires the continuous measurement; and
- (b) The DOE did not verify that the monitoring plan is in line with the applied methodology as per the VVM paragraph 190 and failed to request the revision of the monitoring plan prior to submitting the request for issuance.

The Board further noted that:

- (a) A request for deviation should be submitted to address the concerns on the monitoring of moisture content of biomass during this monitoring period, in accordance with the VVM paragraph 199(a), prior to re-submitting the request for issuance; and
- (b) The re-assessment of the change in the historical annual heat generation (2001-2003) from the value described in the PDD should be addressed via "Procedures for notifying and requesting approval of changes from the project activity as described in the registered PDD" prior to submitting the request for issuance.

Issuance Procedure/General guidance

77. The Board, to improve the transparency of decisions, requested the secretariat to publish information notes to provide backgrounds and explanations of Executive Board decisions on requests for issuance for which the Board agreed to not approve to issue the certified emission reductions, and to commence a work programme to provide information notes on other rulings on requests for issuance considered through the review process.

Agenda item 4. CDM management plan and resources for the work on the CDM

Resources

78. The Board considered an assessment of compliance with indicative timelines set by the Board in different processes and requested the secretariat to include in future submissions a visual representation of recent trends.

79. The Board took note of information provided by the secretariat on the status of resources received as reflected in annex 52. It was noted that since the forty-ninth meeting of the Board, the income generated by registration fees, share of proceeds and methodology fees has grown by an additional USD 1.8 million as a result of the payment of USD 1.3 million in registration fees, USD 574,771 in share of proceeds and USD 1,907 in methodologies fees. As a result of the above income, which includes USD 0.4 million as accrued interest in 2009, and expenditure, USD 27.5 million are currently available to support the CDM activities in the remaining months of 2009. A further USD 0.6 million are available as a result of 2007 and 2008 pledges recently converted into contributions from Parties towards DNA activities. These resources are additional to the USD 1 million that the CDM MAP has allocated towards DNA activities in 2009

**Agenda item 5. Other matters****Agenda sub-item 5 (a): Requests by CMP to the Board**

80. On the basis of discussions at its policy retreats held back-to-back with its forty-eighth and and forty-ninth meetings, the Board agreed to report to the CMP, at its fifth session, the measures to be implemented directly to improve the efficiency in the operation of the CDM, as contained in section II or [annex 53](#). The Board further agreed on specific recommendations to the CMP, at its fifth session, on which the Board wishes to seek the guidance of the CMP, as contained in section III of the same annex. This document will be included as an annex to the EB report to CMP 5.

81. The Board agreed to its annual report to the fifth session of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP 5) which covers the period 25 October 2008 to 16 October 2009 and requested the secretariat to prepare, and finalize the report in cooperation with the Chair and Vice-Chair of the Board in order to include the outcome of the fiftieth meeting of the Board. Once the report is processed through the UN official editors it will be posted on the UNFCCC and UNFCCC CDM website accordingly.

Agenda sub-item 5 (b): Regional distribution

82. The Board finalized its recommendations to CMP 5 on the regional distribution of CDM project activities, as contained in [annex 54](#) to this report. This document will be included as an annex to the EB report to CMP 5.

83. The Board took note of the efforts made by the Danish Government to finalize the study on the potential use of micro-financing in support of CDM projects in LDC countries.

Agenda sub-item 5 (c): Relations with Designated National Authorities

84. The Board took note of the update by the secretariat on the preparations of the eighth meeting of the CDM DNA Forum to be held from 26 - 28 October 2009 in Singapore.

85. The Board agreed to request the secretariat to support the participation of the Non-Annex I Co-Chair of the DNA Forum in informal sessions of the DNA Forum.

Agenda sub-item 5 (d): Relations with Designated Operational and Applicant Entities

86. The Board took note of the report by the vice-chair of the CDM DOE/AE Coordination Forum; and provided feedback to the forum, as appropriate.

87. The vice-chair of the DOE/AE Coordination Forum elaborated the input received from entities for the consideration of the Board, and sought guidance from the Board on the procedure for registration of a programme of activities as a single project activity and issuance of certified emission reductions for a programme of activities (version 03) and procedures for review of erroneous inclusion of CDM project activity (CPA) (version 01).

88. The Board members responded to some of the questions raised by the vice-Chair of the DOE/AE Forum.

89. The Chair of the Board thanked Mr. Sueng-Ho Han and stressed the need for the forum to also identify possible answers to the questions raised by the Board members, during its next interaction.

**Agenda sub-item 5 (e): Relationship with stakeholders, intergovernmental and non-governmental organizations (registered accredited observers)**

90. The Board met with registered observers for an informal interaction on the last day of the meeting and agreed to continue with such meetings in the afternoon of the last day of its future meetings, unless otherwise indicated. These meetings are available on webcast.

91. The Board further agreed to continue to meet with the same type of arrangement, with space being made available for 70 observers, and to reconsider the issue when necessary. Observers to the fifty-first meeting of the Executive Board shall have registered with the secretariat by 9 November 2009. In order to ensure proper security and logistical arrangements, the Board emphasized that this deadline will be strictly enforced by the secretariat.

Agenda sub-item 5 (f): Other business

92. The Board agreed to the tentative calendar of meetings for 2010, which is contained in [annex 55](#) to this report. The Board noted that candidates that are being considered for nomination as Board members or alternate members may wish to note that the caseload and number of meetings for 2010 remain high.

93. The Board agreed on the provisional agenda for its fifty-first meeting (30 November - 4 December 2009) as contained in [annex 56](#) to this report, with an open session on the 2 - 4 December 2009.

Agenda item 6. Conclusion of the meeting

94. The Chair summarized the main conclusions. The Board thanked UNCC and UNESCAP for the excellent support in the organization of the meeting of the Board in Bangkok, Thailand.

Agenda sub-item 6 (a): Summary of decisions

95. Any decisions taken by the Board shall be made publicly available in accordance with paragraph 17 of the CDM modalities and procedures and with rule 31 of the rules of procedure of the Executive Board.

Agenda sub-item 6 (b): Closure

96. The Chair closed the meeting.

Annexes to the report**Membership issues**

Annex 1 - Documents related to conflict of interest

Methodologies

Annex 2 - ACM0016 - "Baseline Methodology for Mass Rapid Transit Projects" (version 01)

Annex 3 - ACM0017 - "Production of biodiesel for use as fuel" (version 01)

Annex 4 - AM0023 - "Leak reduction from natural gas pipeline compressor or gate stations" (version 03)

Annex 5 - AM0031 - "Baseline Methodology for Bus Rapid Transit Projects" (version 03)



Annex 6 - AM0034 - “Catalytic reduction of N₂O inside the ammonia burner of nitric acid plants” (version 03.4)

Annex 7 - AM0070 - “Manufacturing of energy efficient domestic refrigerators” (version 02)

Annex 8 - AM0072 - “Fossil Fuel Displacement by Geothermal Resources for Space Heating” (version 02)

Annex 9 - ACM0003 - “Emissions reduction through partial substitution of fossil fuels with alternative fuels or less carbon intensive fuels in cement manufacture” (version 07.3)

Annex 10 - ACM0005 - “Consolidated Baseline Methodology for Increasing the Blend in Cement Production” (version 05)

Annex 11 - Possible implications of the inclusion of CCS as CDM project activities

Annex 12 - Guidelines on apportioning emissions from production processes between main product and co- and by-products (version 01)

Annex 13 - Guidelines for objective demonstration and assessment of barriers (version 01)

Annex 14 - “Tool to calculate the emission factor for an electricity system” (version 02)

Annex 15 - “Tool to determine the remaining lifetime of equipment” (version 01)

Afforestation and Reforestation matters

Annex 16 - AR-AM0002 “Restoration of degraded lands through afforestation/reforestation” (version 03)

Annex 17 - AR-AM0004 “Reforestation or afforestation of land currently under agricultural use” (version 04)

Annex 18 - AR-AM0005 “Afforestation and reforestation project activities implemented for industrial and/or commercial uses” (version 04)

Annex 19 - AR-AM0006 “Afforestation/Reforestation with Trees Supported by Shrubs on Degraded Land” (version 03)

Annex 20 - AR-AM0010 “Afforestation and reforestation project activities implemented on unmanaged grassland in reserve/protected areas” (version 04)

Annex 21 - Guidelines on conditions under which GHG emissions from removal of existing vegetation due to site preparation are insignificant (version 01)

Annex 22 - A/R methodological tool “Estimation of GHG emissions due to clearing, burning and decay of existing vegetation attributable to a CDM A/R project activity” (version 03)

Annex 23 - Guidelines on conservative choice and application of default data in estimation of the net anthropogenic GHG removals by sinks (version 02)

Annex 24 - Recommendation on the implications of the possible inclusion of reforestation of lands with forests in exhaustion as afforestation and reforestation clean development mechanism project activities, taking into account technical, methodological and legal issues

***Small- scale***

Annex 25 - AMS-III-AF Avoidance of methane emissions through excavating and composting of partially decayed municipal solid wastes (MSW) (version 01)

Annex 26 - AMS-III.AG Switching from high carbon intensive grid electricity to low carbon intensive fossil fuels (version 01)

Annex 27 - AMS-III.AH Shift from high carbon intensive fuel mix ratio to low carbon intensive fuel mix ratio (version 01)

Annex 28 - AMS-III.Y Methane avoidance through separation of solids from wastewater or manure treatment systems (version 02)

Annex 29 - AMS-I.D Grid connected renewable electricity generation (version 15)

Annex 30 - General guidelines for sampling and surveys for SSC project activities (version 01)

Matters relating to the registration of CDM project activities

Annex 31 -Scope of review (registration) 1792

Annex 32 -Scope of review (registration) 1924

Annex 33 -Scope of review (registration) 2123

Annex 34 -Scope of review (registration) 2227

Annex 35 -Scope of review (registration) 2375

Annex 36 -Scope of review (registration) 2446

Annex 37 -Scope of review (registration) 2548

Annex 38 -Scope of review (registration) 2565

Annex 39 -Scope of review (registration) 2567

Annex 40 -Scope of review (registration) 2573

Annex 41 -Scope of review (registration) 2597

Annex 42 -Scope of review (registration) 2610

Annex 43 -Scope of review (registration) 2647

Annex 44 -Scope of review (registration) 2668

Annex 45 -Scope of review (registration) 2671

Annex 46 -Scope of review (registration) 2676

Annex 47 -Scope of review (registration) 2698

Annex 48 - Revision to "Procedures for processing and reporting on validation of CDM project activities"

Matters relating to the issuance of CERs

Annex 49 - Scope of review (issuance) - Project 0089



Annex 50 - Scope of review (issuance) - Project 0453

Annex 51 - Scope of review (issuance) - Project 0943

Management plan and resources for the work on the CDM

Annex 52 - Status of resources

Other matters

Annex 53 - Recommendation and measures on strategic improvements to efficiency in the operation of the CDM

Annex 54 - Recommendation on regional distribution

Annex 55 - Tentative calendar of meeting for 2010

Annex 56 - Provisional agenda for EB 51

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Endnotes

1. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in the response to the request for review regarding: (a) the total investment, O&M costs and tax rates used in the investment analysis and; (b) the grid emission factor calculation.
2. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding the assumed material and other cost.
3. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which: (a) incorporate the additional information submitted in response to the request for review regarding the validation of investment and O&M costs and grid emission factor; and (b) further validates the PP response that a notification was sent to the China DNA in compliance with EB 41, Annex 46, paras. 2 and 3.
4. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding the validation of sensitivity analysis on PLF and O&M costs and the common practice analysis.
5. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding the suitability of the total investment cost, the MSW disposal fee, the ash price, the sludge disposal fee, the diesel oil and coal costs, the NCV of fuels and the revised monitoring plan.
6. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding the validation of the input values to the investment analysis and the missing information in sections B.5 and B.6 of the PDD.
7. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in the response to the request for review regarding baseline emission calculations.
8. If the Board ultimately decides to register the project activity, the DOE shall: (i) submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding barrier analysis and release of waste heat into the atmosphere in absence of project activity, and (ii) validate the proposed project activity using the methodology AMS-III.Q, version 02
9. If the Board ultimately decides to register the project activity, the DOE (TÜV-SÜD) shall: (i) validate the proposed project activity using the methodology AMS-III.Q version 2; and (ii) submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to the request for review regarding the suitability of input values to the investment analysis.
10. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in the response to the request for review regarding the prior of CDM consideration, application of baseline methodology, and calculation and monitoring of project emissions.



11. If the Board ultimately decides to register the project activity, the PP/DOE shall submit a revised PDD and the corresponding validation report which incorporate the information submitted in response to this request for review regarding the applicability of input values from the DPR, the validation of the tariff and the O&M cost and the separate monitoring plan for each individual site.
12. If the Board ultimately decides to issue CERs, the DOE shall be required to submit a revised verification report which incorporates the confirmation that the INEC Burgos Substation is connected to the Luzon-Vizayas grid provided in response to the request for review.