

CDM-MP91

Meeting report

Methodologies Panel ninety-first meeting

Version 01.0

Date of meeting: 5 to 7 July 2023

Place of meeting: Bonn, Germany



United Nations
Framework Convention on
Climate Change

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Agenda item 1. Agenda and meeting organization

Agenda item 1.1. Opening

1. The Vice-Chair of the Methodologies Panel (MP), Ms. Natalie Kushko, opened the meeting.
2. The MP noted that one member of the MP, Mr. Kishor Rajhansa, was unable to attend the meeting and provided proper justification for his absence.
3. Table 1 shows attendance at the meeting, which was held from 5 to 7 July 2023. Bold print indicates attendance, and italics indicates attendance was virtual.

Table 1. Attendance

Chair/Vice-Chair	Members
Mr. Amjad Abdulla (Chair)	<i>Mr. Amr Osama Abdel-Aziz</i>
<i>Ms. Natalie Kushko (Vice-Chair)</i>	Mr. Braulio Pikman
	Ms. Gbemi Cassandra Jayesimi
	Mr. Jean-Jacques Becker
	Ms. Jessica Wade-Murphy
	Mr. Kenichiro Yamaguchi
	Mr. Kishor Rajhansa
	<i>Ms. Martha Kiwuwa Ntabadde</i>
	Mr. Sudhir Sharma
	Mr. Thomas Grammig
	Ms. Yuko Nagata

Agenda item 1.2. Adoption of the agenda

4. The MP adopted the agenda of the meeting, with two additional items, one of which related to requests for revision to AM0009, version 07.0, as follow:
 - (a) AM_REV_0263: Revision of AM0009 to expand its applicability to project activities utilizing associated gas to produce LNG;
 - (b) AM_REV_0264: Revision of AM0009 to provide a clearer definition of oil field.
5. The MP considered information provided by members, the Chair and the Vice-Chair with respect to any potential conflict of interest. Statements on conflict of interest can be viewed on the United Nations Framework Convention on Climate Change (UNFCCC) clean development mechanism (CDM) website.¹

¹ <https://cdm.unfccc.int/Panels/meth/index.html>.

Agenda item 2. Governance and management matters

Agenda item 2.1. Matters related to the Methodologies Panel

6. The MP took note of the outcome of the 117th and 118th meetings of the Executive Board of the CDM (hereinafter referred to as the Board).

Agenda item 2.2. Upcoming deadlines of relevance to stakeholders

7. The MP took note of the schedule of MP meetings for 2023.
8. Project participants, designated national authorities and other stakeholders may note the following upcoming deadlines:
 - (a) The deadline for the submission of proposed new methodologies to be considered at MP 92 is eight weeks prior to the meeting;
 - (b) The deadline for the submission of requests for revision to be considered at MP 92 is eight weeks prior to the meeting;
 - (c) The deadline for the submission of requests for clarification to be considered at MP 92 is six weeks prior to the meeting.

Agenda item 3. Regulatory matters

9. Information on cases, including their status, outcome and history, is publicly available for standardized baselines, large-scale methodologies, methodological tools and small-scale methodologies on the UNFCCC CDM website.² For information related to large-scale methodologies and methodological tools, see the multiple links under the “Large-scale methodologies” heading. For information related to small-scale methodologies and methodological tools, see the multiple links under the “Small-scale methodologies” heading.
10. The relevant reference documents, “Procedure: Development, revision, clarification and update of standardized baselines” and “Procedure: Development, revision and clarification of baseline and monitoring methodologies and methodological tools”, are available on the UNFCCC CDM website.³
11. The MP took note that no top-down and bottom-up standardized baselines were proposed since its last meeting.
12. The MP took note of the update on the relevant regulatory matters finalized since its last meeting:
 - (a) Fast track clarifications by the MP: “AM_CLA_0305: Clarification on the use of imported waste oil under ACM0017”;
 - (b) Relevant work carried out by consultants;

² <https://cdm.unfccc.int/methodologies/index.html>

³ <https://cdm.unfccc.int/Reference/Procedures/index.html>.

- (c) Desk reviews.

Agenda item 3.1. Standards/tools

(a). Standards for CDM project activities and programmes of activities

13. The MP took note that no proposed standardized baselines were to be considered at this meeting.

(b). Methodological standards for large-scale CDM project activities

(i). New methodologies and tools (large-scale)

14. The MP considered the new large-scale methodologies as shown in table 2 and, where applicable, took external expertise and public input into account.

Table 2. Status of new large-scale methodologies

Type	Submission	Title	Mandate	Status	Paragraph
Methodology	NM0381	Emission reduction by hydrogen production from renewable energy sources	Bottom-up submission	Approval recommended	15
Methodology	NM0383	Emission reduction through re-refining used lubricating oils	Bottom-up submission	Work in progress	16
Methodology	NM0382	Production of Geopolymer Cement	Bottom-up submission	Work in progress	17
Methodology	Top-down	Renewable energy generation for captive use	EB 113 report, para. 48	Approval recommended	18

15. The MP recommended that the Board approve the draft new methodology “AM00XX: Hydrogen production from electrolysis of water”, as contained in annex 1 to this report. The new methodology covers the project activities that involve the construction of a new captive renewable power plant and a new electrolyser hydrogen production plant. The recommendation is based on the submission “NM0381: Emission reduction by hydrogen production from renewable energy sources”. The history of this bottom-up submission is available on the UNFCCC CDM website.⁴
16. The MP considered the proposed new large-scale methodology “NM0383: Emission reduction through re-refining used lubricating oils” and agreed to continue working on the

⁴ <https://cdm.unfccc.int/methodologies/PAmethodologies/pnm/byref/NM0381>.

proposed methodology at its next meeting. The proposed new methodology is intended for project activities that produce base oil from used lubricating oil (re-refined base oil) that can replace base oil from crude oil (virgin base oil). The history of this bottom-up submission can be viewed on the UNFCCC CDM website.⁵

17. The MP considered the proposed new large-scale methodology “NM0382: Production of Geopolymer Cement” and agreed to continue working on the proposed methodology at its next meeting. The proposed new methodology is intended for project activities that produce Geopolymer Cement to replace Ordinary Portland Cement that would have otherwise been used in the absence of the project activities. The history of this bottom-up submission can be viewed on the UNFCCC CDM website.⁶
18. The MP recommended that the Board approve the draft new methodology “AM00XX: Renewable energy generation for captive use”, as contained in annex 2 to this report. Work on this top-down methodology was conducted in response to a mandate from the Board at its 113th meeting (EB 113), requesting the MP to revise “ACM0002: Grid-connected electricity generation from renewable sources” or develop a new methodology to clarify the applicability and requirements in relation to wheeling and banking of renewable electricity fed into the grid by the project activity before its use, and to submit the revised methodology or new methodology.

(ii). Revisions to approved methodologies and tools (large-scale)

19. The MP considered the revisions to large-scale methodologies and methodological tools as shown in table 3 and, where applicable, took external expertise and public input into account.

Table 3. Status of revisions to large-scale methodologies and tools

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
Methodology	ACM0002	Grid-connected electricity generation from renewable sources	Bottom-up submission (AM_REV_0262: Request for revision of ACM0002 to integrate battery energy storage system (BESS) to renewable energy projects supplying electricity to the captive user and or sale through open access)	Approval recommended	20

⁵ <https://cdm.unfccc.int/methodologies/PAmethodologies/pnm/byref/NM0383>.

⁶ <https://cdm.unfccc.int/methodologies/PAmethodologies/pnm/byref/NM0382>.

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
Methodology	AM0046	Distribution of efficient light bulbs to households	EB 116 report, para. 29	Work in progress	21
Methodology	AM0113	Distribution of compact fluorescent lamps (CFL) and light-emitting diode (LED) lamps to households	EB 116 report, para. 29	Work in progress	21
Tool	TOOL27	Investment analysis	EB 116 report, para. 28	Work in progress	22
Methodology	AM0009	Recovery and utilization of gas from oil fields that would otherwise be flared or vented	Bottom-up submission (AM_REV_263: Revision of AM0009 to expand its applicability to project activities utilizing associated gas to produce LNG)	Work in progress	23
Methodology	AM0009	Recovery and utilization of gas from oil fields that would otherwise be flared or vented	Bottom-up submission (AM_REV_264: Revision of AM0009 to provide a clearer definition of oil field)	Work in progress	23

20. The MP considered the bottom-up submission “AM_REV_0262: Request for revision of ACM0002 to integrate battery energy storage system (BESS) to renewable energy projects supplying electricity to the captive user and or sale through open access” and agreed to combine the work on this submission with the work it conducted to address the mandate received from the Board, mentioned in paragraph 18 above, as the request for revision has a lot of overlap, in terms of scope of the work, with the mandate it received from the Board.
21. The MP took note of the progress made on the top-down revision of the following methodologies applicable to CFL technologies and agreed to continue its work at its next meeting. The work is being carried out in response to a mandate from the Board at EB 116 (EB 116 meeting report, para. 29) to review and, if needed, revise these methodologies to clarify eligible energy-efficient lighting technologies (see also para. 30 below):

- (a) “AM0046: Distribution of efficient light bulbs to households”;
 - (b) “AM0113: Distribution of compact fluorescent lamps (CFL) and light-emitting diode (LED) lamps to households”.
22. The MP considered “TOOL27: Investment analysis” and agreed to continue working on this item at its next meeting. This revision is based on a mandate from the Board at EB 116 (EB 116 meeting report, para.28) for editorial consistency and structural improvement.
23. The MP considered the two following bottom-up submissions of requests for revision to AM0009 and agreed to seek clarification from the submitter on the proposed changes:
- (a) “AM_REV_263: Revision of AM0009 to expand its applicability to project activities utilizing associated gas to produce LNG”;
 - (b) “AM_REV_264: Revision of AM0009 to provide a clearer definition of oil field”.

(iii). Requests for clarification of methodologies and tools (large-scale)

24. The MP considered the requests for clarification (large-scale) as shown in table 4. The requests are available on the UNFCCC CDM website.⁷

Table 4. Status of requests for clarification (large-scale)

Submission number	AM/AT	Title of request	Status	Paragraph
AM_CLA_0306	ACM0025	Clarification on the application of ACM0025 to new natural gas power plants that are not connected to the electric grid	Clarified	25
CLA_TOOL_0048	TOOL24	Clarification on segregating power plants by energy source applying the common practice analysis	Clarified	26

25. The MP considered the request for clarification “AM_CLA_306: Clarification on the application of ACM0025 to new natural gas power plants that are not connected to the electric grid” (regarding ACM0025, version 02.0). The MP recommended that the Board approve the response to the request for clarification.
26. The MP considered the request for clarification “CLA_TOOL_0048: Clarification on segregating power plants by energy source applying the common practice analysis” (regarding TOOL24, version 03.1). The MP recommended that the Board approve the response to the request for clarification.

(c). Methodological standards for small-scale CDM project activities

(i). New methodologies and tools (small-scale)

⁷ <https://cdm.unfccc.int/methodologies/PAMethodologies/clarifications/pending>.

27. The MP considered the new small-scale methodology as shown in table 5 and, where applicable, took external expertise and public input into account.

Table 5. Status of new small-scale methodologies

Type	Submission	Title	Mandate	Status	Paragraph
Methodology	SSC-NM108	Emission reduction by application of Dry-cultivated Water-saving and Drought-resistance Rice (D-WDR) in rice cultivation	Bottom-up submission	Work in progress	28

28. The MP considered the draft new small-scale methodology “SSC-NM108: Emission reduction by application of Dry-cultivated Water-saving and Drought-resistance Rice (D-WDR) in rice cultivation” and agreed to continue working on this item at its next meeting. The draft new methodology is intended for project activities that introduce dry-cultivated water-saving and drought-resistant rice in rice cultivation. The history of this bottom-up submission is available on the UNFCCC CDM website.⁸

(ii). Revisions to approved methodologies and tools (small-scale)

29. The MP considered revisions to small-scale methodologies and tools as shown in table 6.

Table 6. Status of revisions to small-scale methodologies and tools

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
Methodology	AMS-II.C.	Demand-side energy efficiency activities for specific technologies	EB 116 report, para. 29	Work in progress	30
Methodology	AMS-II.J.	Demand-side activities for efficient lighting technologies	EB 116 report, para. 29	Work in progress	30
Methodology	AMS-III.AR.	Substituting fossil fuel based lighting with LED/CFL lighting systems	EB 116 report, para. 29	Work in progress	30

⁸ <https://cdm.unfccc.int/methodologies/SSCmethodologies/pnm/byref/SSC-NM108>.

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
Methodology	AMS-III.D.	Methane recovery in animal manure management systems	EB 116 report, para. 33	Work in progress	31
Methodology	AMS-I.I.	Biogas/biomass thermal applications for households/ small users	EB 116 report, para. 33	Work in progress	31
Tool	TOOL14	Project and leakage emissions from anaerobic digesters	EB 116 report, para. 33	Work in progress	31
Methodology	AMS-III.AU	Methane emission reduction by adjusted water management practice in rice cultivation	EB 118 report, para. 20	Work in progress	32

30. The MP took note of the progress made on the top-down revision of the below-listed methodologies applicable to CFL technologies and agreed to continue its work at its next meeting. The work is being carried out in response to a mandate from the Board at EB 116 (EB 116 meeting report, para. 29) to review and, if needed, revise these methodologies to clarify eligible energy-efficient lighting technologies (see also para. 21 above):
- (a) “AMS-II.C.: Demand-side energy efficiency activities for specific technologies”;
 - (b) “AMS-II.J.: Demand-side activities for efficient lighting technologies”;
 - (c) “AMS-III.AR.: Substituting fossil fuel-based lighting with LED/CFL lighting systems”.
31. The MP considered, and agreed to continue working on at its next meeting, the top-down revision of the following methodologies/tool to address fugitive methane emissions from biogas digesters and use of updated Intergovernmental Panel on Climate Change methods, in response to a mandate from the Board at EB 116 (EB 116 report, para. 33):
- (a) “AMS-III.D.: Methane recovery in animal manure management systems”;
 - (b) “AMS-I.I.: Biogas/biomass thermal applications for households/small users”;
 - (c) “TOOL14: Project and leakage emissions from anaerobic digesters”.
32. The MP considered the review of the methodology “AMS-III.AU: Methane emission reduction by adjusted water management practice in rice cultivation” and agreed to

continue its work at its next meeting. This revision is based on a mandate from the Board at EB 118 (EB 118 meeting report, para. 20) to identify and incorporate improvements based on published literature.

(iii). Requests for clarification of methodologies and tools (small-scale)

33. The MP considered the clarifications (small scale) as shown in table 7. The requests are available on the UNFCCC CDM website.⁹

Table 7. Status of requests for clarification (small-scale)

Submission number	AM/AT	Title of request	Status	Paragraph
SSC_837	AMS-III.BM.	Clarification on the term “fully refundable” used under AMS-III.BM for additionality demonstration	Clarified	34
SSC_838	AMS-I.L.	Clarification on AMS-I.L. on usage of an average value for the share of Type I and Type II consumers	Work in progress	35
SSC_839	AMS-III.C.	Clarification on the eligibility of marine fleets/vessels under AMS-III.C.	Clarified	37

34. The MP considered the request for clarification “SSC_837: Clarification on the term “fully refundable” used under AMS-III.BM for additionality demonstration” (regarding AMS-III.BM., version 02.0). The MP recommended that the Board approve the response to the request for clarification.
35. The MP considered the request for clarification “SSC_838: Clarification on AMS-I.L. on usage of an average value for the share of Type I and Type II consumers” (regarding AMS-I.L., version 04.0). The MP requested the stakeholder to provide additional information on the approach proposed to estimate share of Type I and Type II consumers in the clarification request. Further, the MP agreed to continue working on the clarification request via electronic means before its next meeting.
36. The MP, while working on the request for clarification mentioned in paragraph 35 above, agreed to seek a mandate from the Board to revise methodology “AMS-I.L.: Electrification of rural communities using renewable energy” to further assess the following issues and propose improvements:
- (a) Include a definition for Type I and Type II consumers;
 - (b) Add criteria to distinguish between Type I and Type II consumers;
 - (c) Replace the requirement for estimating the electricity consumption with a requirement to meter the consumption;

⁹ <https://cdm.unfccc.int/methodologies/SSCmethodologies/clarifications/pending>.

- (d) Include possible approaches to estimate Type I and Type II consumers;
- (e) Ensure consistency of the emission reduction calculation approaches in the methodology.

37. The MP considered the request for clarification “SSC_839: Clarification on the eligibility of marine fleets/vessels under AMS-III.C.” (regarding AMS-III.C., version 16.0). The MP recommended that the Board approve the response to the request for clarification.

Agenda item 3.1.1. Post-registration changes

38. The MP took note that no requests for input to post-registration changes for large-scale and small-scale methodologies or tools were to be considered at this meeting.

Agenda item 3.1.2. Deviations from approved methodologies and tools

39. The MP took note that no requests for input to deviations related to large-scale and small-scale methodologies or tools were to be considered at this meeting.

Agenda item 3.2. Other issues

40. The MP considered the matter related to the development of subnational/regional values of fraction of non-renewable biomass (fNRB), in response to a mandate from the Board at EB 116 (EB 116 meeting report, para. 25) requesting the MP to develop these values building on scientific studies and engaging external experts. The MP agreed to continue its work at its next meeting.

Agenda item 4. Conclusion of the meeting

- 41. The MP expressed its appreciation to outgoing members, Ms. Gbemi Cassandra Jayesimi and Ms. Jessica Wade-Murphy, for their dedication and the expertise they contributed during their tenure on the panel.
- 42. The members of the MP adopted the MP 91 meeting report. The report and annexes will be available on the UNFCCC CDM website.
- 43. The Chair of the MP closed the meeting.

Annexes to the report

Annex 1 - AM00XX: Hydrogen production from electrolysis of water

Annex 2 - AM00XX: Renewable energy generation for captive use

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Document information

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