

**CDM-MP90**

## Meeting report

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# Methodologies Panel ninetieth meeting

Version 01.0

Date of meeting: 14 to 17 February 2023

Place of meeting: Virtual



**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), Mr. El Hadji Mbaye Diagne, opened the meeting.
2. The MP noted that one member of the MP, Mr. Sudhir Sharma, was unable to attend the meeting and provided proper justification for his absence.
3. Table 1 below represents attendance at the virtual meeting, which was held from 14 to 17 February 2023. The names in bold print represent attendance at the meeting.

Table 1. Attendance

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

### Agenda item 1.2. Adoption of the agenda

4. The MP adopted the agenda of the meeting.
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.<sup>1</sup>

## Agenda item 2. Governance and management matters

### Agenda item 2.1. Matters related to the Methodologies Panel

6. The MP took note of the outcomes of the 116<sup>th</sup> meeting of the Executive Board of the CDM (hereinafter referred to as the Board) that were relevant to the MP.

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

7. The MP noted the measures undertaken to improve the editorial quality, clarity and consistency of methodological products and welcomed making use of technical editors and adding quality control processes when reviewing the methodological products. The MP further agreed to a process where for each case one member will be appointed, who is not assigned to the case, to conduct a post-meeting peer review of the document for quality and consistency check.

### **Agenda item 2.2. Upcoming deadlines of relevance to stakeholders**

8. The MP took note that the final dates of its 91<sup>st</sup> and 92<sup>nd</sup> meeting (MP 91 and MP 92) will be decided at the 117<sup>th</sup> meeting of the Board in March 2023.
9. 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 91 is eight weeks prior to the meeting;
  - (b) The deadline for the submission of requests for revision to be considered at MP 91 is eight weeks prior to the meeting;
  - (c) The deadline for the submission of requests for clarification to be considered at MP 91 is six weeks prior to the meeting.

### **Agenda item 3. Regulatory matters**

10. Information on cases, including their status, outcome and history, is made publicly available for standardized baselines, large-scale methodologies, methodological tools and small-scale methodologies on the UNFCCC CDM website.<sup>2</sup> 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.
11. 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.<sup>3</sup>
12. The MP took note of the overview of the top-down and bottom-up proposed standardized baselines.
13. The MP took note of the update on the relevant regulatory matters finalized since the last meeting of the MP (MP 89):
  - (a) Fast-track clarifications by the MP:
    - (i) AM\_CLA\_0301: Clarification on the application of ACM0001 and eligibility under TOOL32 for the upgrade and utilization of landfill gas;

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

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

- (ii) AM\_CLA\_0302: Clarification request on the applicability of ACM0022 to food/kitchen waste;
- (iii) AM\_CLA\_0303: Clarification request on the applicability of ACM0017 to Hydrotreated Vegetable Oil (HVO) Jet Biofuels Production Project;
- (b) Relevant work carried out by consultants;
- (c) Desk reviews.

### **Agenda item 3.1. Standards/tools**

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

- 14. 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)**

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

**Table 2. Status of the new large-scale methodologies**

<b>Type</b>	<b>Submission</b>	<b>Title</b>	<b>Mandate</b>	<b>Status</b>	<b>Paragraph</b>
<b>Methodology</b>	NM0381	Emission reduction by hydrogen production from renewable energy sources	Bottom-up submission	Approve	16
<b>Methodology</b>	Top-down	Renewable energy generation for captive use	CDM EB 113 meeting report, para. 48	Work in progress	17

- 16. 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 can be viewed on the UNFCCC CDM website.<sup>4</sup>
- 17. The MP considered the top-down development of the new methodology “Renewable energy generation for captive use” and agreed to continue working on the new methodology at its next meeting. The work is being carried out in response to the mandate by the Board at EB 113 (EB 113 meeting report, paragraph 48) to develop a new

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

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.

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

18. The MP considered the revisions to large-scale methodologies and methodological tools as presented in table 3 below 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 to 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)	Work in progress	19
Tool	TOOL07	Tool to calculate the emission factor for an electricity system	Bottom-up submission (REV_TOOL_00 05: Inclusion of harmonized IFI <sup>5</sup> default grid emission factors in the "TOOL07: Tool to calculate the emission factor of an electric system")	Reject	20
<b>Methodology</b>	AM0046	Distribution of efficient light bulbs to households	EB 116 report, para. 29	Work in progress	22

<sup>5</sup> International Financial Institution

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
<b>Methodology</b>	AM0113	Distribution of compact fluorescent lamps (CFL) and light-emitting diode (LED) lamps to households	EB116 report, para. 29	Work in progress	22

19. The MP considered bottom-up submission “AM\_REV\_0262: Request to 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” for the revision of the methodology “ACM0002: Grid-connected electricity generation from renewable sources” (version 20.0) and agreed to continue working on this agenda item at its next meeting. The history of this large-scale bottom-up request can be viewed on the UNFCCC CDM website.<sup>6</sup>
20. The MP recommended that the Board reject the request for revision “REV\_TOOL\_0005: Inclusion of harmonized IFI default grid emission factors in the ‘TOOL07: Tool to calculate the emission factor of an electric system’” (regarding “TOOL07: Tool to calculate the emission factor of an electric system”, version 07.0). The reasons for rejection are outlined in the “Form: Approved baseline and monitoring methodology/methodological tool revision recommendation form”. The history of this large-scale bottom-up request can be viewed on the UNFCCC CDM website.<sup>7</sup>
21. While considering the request for revision REV\_TOOL\_0005, the MP agreed to seek guidance from the Board to analyse other approaches, e.g. emission factors from the International Financial Institution Technical Working Group (IFI TWG), to determine the grid emission factor when applying the TOOL07.
22. The MP initiated work on the top-down revision of 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 the mandate by the Board at EB 116 (EB 116 meeting report, paragraph 29) to review and, if needed, revise these methodologies to clarify eligible energy-efficient lighting technologies (see also paragraph 32 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”.
23. The MP discussed requesting a mandate for a top-down revision of ACM0017 and considered that, as clarified in the response to AM\_CLA\_0303, project participants may wish to request a revision in accordance with the procedure “Development, revision and clarification of baseline and monitoring methodologies and methodological tools” version 2.1, or consider the approved methodology “AM0089: Production of diesel using

<sup>6</sup> <https://cdm.unfccc.int/methodologies/PAmethodologies/revisions/54722>.

<sup>7</sup> <https://cdm.unfccc.int/methodologies/PAmethodologies/tools-revisions/62466>.

a mixed feedstock of gasoil and vegetable oil" version 3.0. Hence, the MP agreed not to seek a mandate to revise ACM0017 at this time.

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

24. The MP considered the clarification (large scale) as presented in table 4 below. The request is available on the UNFCCC CDM website.<sup>8</sup>

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

Submission number	AM/AT	Title of request	Status	Paragraph
AM_CLA_0297	ACM0002	Clarification regarding application of ACM0002 for captive purpose	Work in progress	25

25. The MP agreed to consider the request for clarification "AM\_CLA\_0297: Clarification regarding application of ACM0002 for captive purpose" (regarding ACM0002, version 20.0) when the work on new methodology (see paragraph 17 above) is concluded in order to submit the revised response to the request for clarification AM\_CLA\_0297 together with the new methodology in accordance with the request of the Board at EB 113 (EB 113 meeting report, paragraph 48).

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

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

26. The MP considered the new small-scale methodology as presented in table 5 below 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
<b>Methodology</b>	SSC-NM107	Emission reduction by hydrogen fuel cell vehicles	Bottom-up submission and EB 116 meeting report, para. 31	Approve	27
<b>Methodology</b>	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

<sup>8</sup> <https://cdm.unfccc.int/methodologies/PAMethodologies/clarifications/pending>.



27. The MP recommended that the Board approve the draft new methodology “SSC-III.XX: Hydrogen fuel cell vehicles”, as contained in annex 2 to this report. The new methodology covers the project activities that aim to introduce a fleet of vehicles using hydrogen fuel cells such as buses, commuter vans or taxis used for public transport and trucks used for freight transport, food delivery or waste collection. The recommendation is based on the submission “SSC-NM107: Emission reduction by hydrogen fuel cell vehicles” and takes into account the comments from the Board at EB 116 (EB 116 meeting report, paragraph 31). The history of this bottom-up submission can be viewed on the UNFCCC CDM website.<sup>9</sup>
28. The MP considered the proposed 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 the methodology at its next meeting, subject to further information being received from the proponent of the methodology on key aspects, such as demonstration of additionality, baseline, calculation of emission reductions, and monitoring. The proposed new methodology is intended for project activities that introduce D-WDR in rice cultivation. The history of this bottom-up submission can be viewed on the UNFCCC CDM website.<sup>10</sup>

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

29. The MP considered the revision to small-scale methodology, as presented in table 6 below.

**Table 6. Status of revision to small-scale methodology**

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
<b>Methodology</b>	AMS-III.R.	Methane recovery in agricultural activities at household/ small farm level	Bottom-up submission (SSC_826: Revision of AMS-III.R. to provide further clarity on monitoring requirements for biogas digester systems)	Approve	30

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<sup>9</sup> <https://cdm.unfccc.int/methodologies/SSCmethodologies/pnm/byref/SSC-NM107>.

<sup>10</sup> <https://cdm.unfccc.int/methodologies/SSCmethodologies/pnm/byref/SSC-NM108>.

<b>Type</b>	<b>AM/AT</b>	<b>Title</b>	<b>Mandate/ submission</b>	<b>Status</b>	<b>Paragraph</b>
<b>Methodology</b>	AMS-III.S.	Introduction of low-emission vehicles/ technologies to commercial vehicle fleets	Bottom-up submission (SSC_835: Revision of AMS-III.S. to include low-emission vehicles/ vessels/ technologies to commercial vehicle/ vessel fleets)	Work in progress	31
<b>Methodology</b>	AMS-II.C.	Demand-side energy efficiency activities for specific technologies	EB 116 report, para. 29	Work in progress	32
<b>Methodology</b>	AMS-II.J.	Demand-side activities for efficient lighting technologies	EB 116 report, para. 29	Work in progress	32
<b>Methodology</b>	AMS-III.AR.	Substituting fossil fuel-based lighting with LED/CFL lighting systems	EB 116 report, para. 29	Work in progress	32
<b>Methodology</b>	AMS-III.R.	Methane recovery in agricultural activities at household/small farm level	EB 116 report, para. 33	Approve	33
<b>Methodology</b>	AMS-III.D.	Methane recovery in animal manure management systems	EB 116 report, para. 33	Work in progress	33
<b>Methodology</b>	AMS-I.I.	Biogas/biomass thermal applications for households/ small users	EB 116 report, para. 33	Work in progress	33

Type	AM/AT	Title	Mandate/ submission	Status	Paragraph
<b>TOOL</b>	TOOL14	Project and leakage emissions from anaerobic digesters	EB 116 report, para. 33	Work in progress	33

30. The MP recommended that the Board approve the revised methodology “AMS-III.R.: Methane recovery in agricultural activities at household/small farm level”, as contained in annex 3 to this report. This revision is based on the bottom-up submission “SSC\_826: Revision of AMS-III.R. to provide further clarity on monitoring requirements for biogas digester systems” and the mandate from the Board at (EB 116 report, paragraph 33) to address fugitive methane emissions from biogas digesters and use of updated Intergovernmental Panel on Climate Change (IPCC) methods (see paragraph 33 below). The history of the bottom-up request can be viewed on the UNFCCC CDM website.<sup>11</sup>
31. The MP considered the bottom-up submission “SSC\_835: Revision of AMS-III.S. to include low-emission vehicles/vessels/technologies to commercial vehicle/vessel fleets” for the revision of the methodology “AMS-III.S.: Introduction of low-emission vehicles/technologies to commercial vehicle fleets” (version 04.0) and agreed to continue working on this agenda item at its next meeting. The history of this small-scale bottom-up request can be viewed on the UNFCCC CDM website.<sup>12</sup>
32. The MP initiated work 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 the mandate by the Board at EB 116 (EB 116 meeting report, paragraph 29) to review and, if needed, revise these methodologies to clarify eligible energy-efficient lighting technologies (see also paragraph 22 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”.
33. The MP considered revisions of the methodologies and tool (AMS-III.R.; AMS-III.D.; AMS-I.I.; and TOOL14) addressing fugitive methane emissions from biogas digesters and use of updated IPCC methods, in response to the mandate by the Board at EB 116 (EB 116 report, paragraph 33). Out of these, the MP finalized the revision of “AMS-III.R.: Methane recovery in agricultural activities at household/small farm level” (see paragraph 30 above). The MP agreed to continue working on the revision of following methodologies and tool:
- (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”.

<sup>11</sup> <https://cdm.unfccc.int/methodologies/SSCmethodologies/clarifications/05693>.

<sup>12</sup> <https://cdm.unfccc.int/methodologies/SSCmethodologies/clarifications/27271>.

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

34. The MP considered the clarifications (small scale) as presented in table 7 below. The requests are available on the UNFCCC CDM website.<sup>13</sup>

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

<b>Submission number</b>	<b>AM/AT</b>	<b>Title of request</b>	<b>Status</b>	<b>Paragraph</b>
SSC_833	AMS-III.C.	Clarification on the application of AMS-III.C. to e-bikes	Clarified	35

35. The MP considered the request for clarification “SSC\_833: Clarification on the application of AMS-III.C. to e-bikes” (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**

36. 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**

37. 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**

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

**Agenda item 4. Conclusion of the meeting**

39. The members of the MP adopted the MP 90 meeting report. The report and annexes will be available on the UNFCCC CDM website.
40. The Chair of the MP closed the meeting.

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<sup>13</sup> <https://cdm.unfccc.int/methodologies/SSCmethodologies/clarifications/pending>.

## Annexes to the report

Annex 1 - AM00XX: Hydrogen production from electrolysis of water

Annex 2 - SSC-III.XX: Hydrogen fuel cell vehicles

Annex 3 - AMS-III.R.: Methane recovery in agricultural activities at household/small farm level

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### Document information

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