

A6.4-MEP016

Meeting report

Sixteenth meeting of the Methodological Expert Panel

Version 01.0

Date of meeting: 7 to 11 September 2026

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 Co-Chair of the Methodological Expert Panel (MEP), Ms. Adriana Gutierrez, opened the sixteenth meeting.
2. The MEP noted that one of its members, Mr. Chetan Aggarwal, was unable to attend this meeting and had provided proper justification for his absence.
3. Table 1 below represents attendance at the meeting. The names in bold print represent attendance at the meeting, and italics indicate virtual attendance.

Table 1. Attendance

Co-Chairs	Members
Ms. Adriana Gutierrez	Mr. Amr Osama Abdel-Aziz
<i>Mr. Simon Fellermeier</i>	<i>Mr. Braulio Pikman</i>
	Mr. Chetan Aggarwal
	Mr. Daniel Cullenward
	Ms. Jessica Wade-Murphy de Jimenez
	Mr. Kenichiro Yamaguchi
	Mr. Lambert Schneider
	Ms. Martha Ntabadde Kasozi
	<i>Ms. Navjot Kaur Sandhu</i>
	Ms. Olivia Tuchten
	Mr. Ruy Anaya de la Rosa
	Mr. Samir Thapa
	Mr. Wojciech Galinski
	Ms. Yaning Jin

Agenda item 1.2. Adoption of the agenda

4. The MEP adopted the meeting agenda, which was published as document A6.4-MEP016-AA.¹
5. The members and the Co-Chairs of the MEP made available statements of actual, potential or perceived conflicts of interest with respect to the agenda items of this meeting, as reflected on the United Nations Framework Convention on Climate Change (UNFCCC) Article 6.4 mechanism website.²

¹ See <https://unfccc.int/sites/default/files/resource/A6.4-MEP016-AA.pdf>.

² See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/article-64-supervisory-body/mep/meetings>.

Agenda item 2. Governance and management matters

Agenda item 2.1. Matters related to the Methodological Expert Panel

6. The MEP took note that the seventeenth meeting of the MEP (MEP 017), will be held in Bonn, Germany, from 30 November to 4 December 2026.

Agenda item 3. Regulatory matters

Agenda item 3.1. Proposed mechanism methodologies for Article 6.4 activities

7. The MEP noted that 32 proposed mechanism methodology (PMM) submissions have been received, of which 11 passed the initial assessment, as of 11 September 2026.³
8. The MEP would like to thank the proponents of the PMMs for the submissions received since the last meeting.
9. The MEP considered the PMMs, as shown in table 2 below. These submissions are considered by the MEP following the “Procedure: Development, revision and clarification of methodologies and methodological tools” (A6.4-PROC-METH-001).⁴

Table 2. Status of proposed mechanism methodology submissions from stakeholders

Type	Title	Status	Paragraph
PMM001 (also referred to as A6.4-PNM001)	Production of Ammonia through electrolysis of water, air separation and synthesis of hydrogen and nitrogen	Work in progress	10
PMM006	Fertilizer production with renewables-based ammonia	Work in progress	10
PMM004 (also referred to as A6.4-PNM004)	Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions	Recommendation	12

10. The MEP considered the PMM submissions “PMM001: Production of Ammonia through electrolysis of water, air separation and synthesis of hydrogen and nitrogen” and “PMM006: Fertilizer production with renewables-based ammonia” and agreed to continue working on the draft mechanism methodology at its next meeting. The history of these bottom-up submissions can be viewed on the UNFCCC website.^{5,6}

³ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/methodologies#pmm-submissions>.

⁴ See <https://unfccc.int/sites/default/files/resource/A6.4-PROC-METH-001.pdf>.

⁵ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/methodologies#pmm-submissions>.

⁶ See paragraph 25 of the MEP 011 meeting report, wherein MEP agreed to consolidate these PMM submissions and consider them in accordance with the “Procedure: Development, revision and clarification of baseline and monitoring methodologies and methodological tools”. The MEP 011 meeting report is accessible at https://unfccc.int/sites/default/files/resource/A6.4_MEP011.pdf.

11. The MEP noted that a PMM submission on “Hydrogen production from electrolysis of water powered primarily by renewable electricity” is submitted for consideration.⁷ In the course of assessing this submission and the PMM submissions mentioned in paragraph 10 above, the MEP agreed to seek a mandate from the Supervisory Body to develop methodological tool(s) with the objective of having a common approach to calculate activity, baseline and leakage emissions from hydrogen production, as appropriate.
12. The MEP considered the “Draft mechanism methodology: Cooking energy transitions” prepared based on the PMM submission “PMM004: Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions” and the clean development mechanism (CDM) methodology “AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user” and took into account the input received from stakeholders that was published on the UNFCCC website.⁸ The history of this bottom-up submission can be viewed on the UNFCCC website.⁹ The MEP agreed to recommend that the Supervisory Body adopt the “Draft mechanism methodology: Cooking energy transitions”, as contained in annex 1 to this report, contingent on the approval by the Supervisory Body of the following documents: (a) “Methodological tool: Sampling and surveys”, as mentioned in paragraph 23 below; (b) “Methodological tool: Reversal risk assessment”, as mentioned in paragraph 26 below; and (c) revised approved standards and methodological tools required for the application of this mechanism methodology, including in relation to programmes of activities (PoAs), as mentioned in paragraph 16 below;
13. Following the adoption of the “Draft mechanism methodology: Cooking energy transitions”, the MEP agreed to seek a mandate from the Supervisory Body to revise the mechanism methodology to expand the scope of the methodology for institutional users.
14. The MEP requested the secretariat to develop a calculator for conducting a Monte Carlo analysis, taking into account the requirements contained in the “Draft mechanism methodology: Cooking energy transitions”, and make it available to stakeholders.

Agenda item 3.2. Revision of methodological standards/methodological tools for Article 6.4 activities

15. The MEP considered revision to methodological standards and methodological tools, as shown in table 3 below and as mandated by the Supervisory Body.¹⁰

Table 3. Status of revision to mechanism methodologies

Type	Title	Status	Paragraph
Concept note	Revision of methodological standards and tools for application to programmes of activities, including revision to the	Recommendation	16

⁷ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/methodologies#pmm-submissions>.

⁸ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/mep015-meeting-documents>.

⁹ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/methodologies#pmm-submissions>.

¹⁰ See <https://unfccc.int/sites/default/files/resource/A6.4-INFO-GOV-029.pdf>.

Type	Title	Status	Paragraph
	relevant methodological standards and tools		

16. The MEP considered the draft revision to the “Concept note: Revision of methodological standards and tools for application to programmes of activities, including revision to the relevant methodological standards and tools” and took into account the input received from stakeholders that was published on the UNFCCC website.^{11,12} The MEP agreed to recommend that the Supervisory Body:
- (a) Consider this concept note and adopt the draft revised methodological standards and tools included as appendices, as contained in annex 2 to this report;
 - (b) Review the technical matter identified in paragraph 18 of the concept note, select which of the two approaches is appropriate for revising paragraphs 16 and 17 of version 02.0 of the “Standard: Addressing leakage in mechanism methodologies” (A6.4-STAN-METH-005), and request the secretariat to implement appropriate technical and editorial changes to implement the selected approach; and
 - (c) Consider the proposed changes to the “Glossary: Article 6.4 mechanism terms” (A6.4-GLOS-GOV-001) and request secretariat to update it.¹³
17. Further, following the mandate from the Supervisory Body requesting the MEP to revise any relevant methodological standards and tools to make them applicable to PoAs, the MEP agreed to initiate work to revise the following mechanism methodologies and methodological tools:¹⁴
- (a) “Mechanism methodology: Flaring or use of landfill gas” (A6.4-AMM-001);¹⁵
 - (b) “Mechanism methodology: Electricity generation from renewable sources connected to an electricity system” (A6.4-AMM-003);¹⁶
 - (c) “Methodological tool: Emissions from solid waste disposal site” (A6.4-AMT-003);¹⁷
 - (d) “Methodological tool: Project emissions from flaring” (A6.4-AMT-004);¹⁸
 - (e) “Methodological tool: Mass flow of a greenhouse gas in a gaseous stream” (A6.4-AMT-005);¹⁹ and

¹¹ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/MEP014>.

¹² See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/mep015-meeting-documents>.

¹³ See <https://unfccc.int/sites/default/files/resource/A6.4-Glossary.pdf>.

¹⁴ See paragraph 27 of the meeting report of the Supervisory Body at its twenty-first meeting, available at <https://unfccc.int/sites/default/files/resource/A6.4-SBM021.pdf>.

¹⁵ See <https://unfccc.int/sites/default/files/resource/A6.4-AMM-001-v01.0.pdf>

¹⁶ See https://unfccc.int/sites/default/files/resource/A6.4-AMM-003_v01.0.pdf.

¹⁷ See <https://unfccc.int/sites/default/files/resource/A6.4-AMT-003-v01.0.pdf>.

¹⁸ See <https://unfccc.int/sites/default/files/resource/A6.4-AMT-004-v01.0.pdf>.

¹⁹ See <https://unfccc.int/sites/default/files/resource/A6.4-AMT-005-v01.0.pdf>.

- (f) “Methodological tool: Determination of the technical lifetime of equipment” (A6.4-AMT-006).²⁰

Agenda item 3.3. Revision of clean development mechanism methodologies and methodological tools

18. The MEP continued its consideration of the revision of the CDM methodologies, methodological tools, methodological standards, and methodological guidelines as shown in table 4 and as mandated by the Supervisory Body.²¹

Table 4. Status of the revision of CDM methodologies and methodological tools

Type	Title	Status	Paragraph
CDM methodology	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass	Recommendation	19–20
CDM methodology tool	AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user	Recommendation	22
Standard	Sampling and surveys for CDM project activities and programmes of activities	Recommendation	23
Guidelines	Sampling and surveys for CDM project activities and programmes of activities	Recommendation	24

19. The MEP considered the “Draft mechanism methodology: Energy efficiency measures in household cooking”, prepared based on the revision of CDM methodology “AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass” and responded to the questions raised by the Supervisory Body at its twenty-second meeting (SBM 022) in an information note as detailed in paragraph 21 below.²²
20. Further, in consideration of the draft methodology, the MEP agreed to recommend that the Supervisory Body:
- Adopt the draft mechanism methodology, as contained in annex 3 to this report, contingent on the approval by the Supervisory Body of the following documents: (i) “Methodological tool: Sampling and surveys”, as mentioned in paragraph 23 below; (ii) “Methodological tool: Reversal risk assessment”, as mentioned in paragraph 26 below; and (iii) revised approved standards and methodological tools required for the application of this mechanism methodology, including in relation to PoAs, as mentioned in paragraph 16 above; and
 - Provide an exemption for the application of the downward adjustment in second and subsequent calendar years in the draft mechanism methodology,

²⁰ See <https://unfccc.int/sites/default/files/resource/A6.4-AMT-006-v01.0.pdf>.

²¹ See <https://unfccc.int/sites/default/files/resource/A6.4-INFO-GOV-029.pdf>.

²² See paragraph 22 of the SBM 022 meeting report accessible via <https://unfccc.int/sites/default/files/resource/A6.4-SBM022.pdf>.

pursuant to paragraphs 65 and 66 of “Standard: Setting the baseline in mechanism methodologies”, version 01.0 (A6.4 STAN-METH-004).

21. The MEP prepared an information note addressing, among other matters, the request from SBM 022 to discuss the benefits and drawbacks of considering reversal risk and the application of non-permanence provisions for improved cookstove activities. The MEP agreed to recommend that the Supervisory Body consider the “Information note: Analysis of matters raised by the Supervisory Body at its 22nd meeting on the ‘Draft mechanism methodology: Energy efficiency measures in household cooking’”, as contained in [annex 4](#) to this report, when considering the recommendation on the (a) “Draft mechanism methodology: Energy efficiency measures in household cooking”, as mentioned in paragraph 19 above; and (b) “Draft mechanism methodology: Cooking energy transitions”, as mentioned in paragraph 12 above.
22. The MEP considered the “Draft mechanism methodology: Cooking energy transitions” prepared based on the revision of the CDM methodology “AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user” and on the PMM submission “PMM004: Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions”, and took into account the input received from stakeholders that was published on the UNFCCC website.²³ The MEP agreed to recommend that the Supervisory Body adopt the “Draft mechanism methodology: Cooking energy transitions”, as mentioned in paragraph 12 above.
23. The MEP considered the “Draft methodological tool: Sampling and surveys”, prepared based on the revision of the CDM “Standard: Sampling and surveys for CDM project activities and programmes of activities” and the revision of the CDM “Guidelines: Sampling and surveys for CDM project activities and programmes of activities”, and took into account the input received from stakeholders that was published on the UNFCCC website.²⁴ The MEP agreed to recommend that the Supervisory Body adopt the “Draft methodological tool: Sampling and surveys”, as contained in [annex 5](#) to this report.
24. The MEP considered the “Information note: Sampling and surveys requirements for designated operational entities”, prepared based on the revision of the CDM “Standard: Sampling and surveys for CDM project activities and programmes of activities” and the revision of the CDM “Guidelines: Sampling and surveys for CDM project activities and programmes of activities”, and took note that no input was received from stakeholders under the call for public input published on the UNFCCC website.²⁵ The MEP agreed to recommend that the Supervisory Body consider the “Information note: Sampling and surveys requirements for designated operational entities”, as contained in [annex 6](#) to this report, and request the secretariat to incorporate the sampling requirements into the “Standard: validation and verification standard for projects” (A6.4-STAN-AC-003) and “Standard: Article 6.4 validation and verification standard for programmes of activities” (A6.4-STAN-AC-005).²⁶

²³ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/mep015-meeting-documents>.

²⁴ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/MEP014>.

²⁵ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/MEP014>.

²⁶ See <https://unfccc.int/sites/default/files/resource/A6.4-STAN-AC-003.pdf> and <https://unfccc.int/sites/default/files/resource/A6.4-STAN-AC-005.pdf>.

Agenda item 3.4. Removals

25. The MEP considered the development of a methodological tool related to removals as shown in table 5, based on the “Standard: Requirements for activities involving removals under the Article 6.4 mechanism” (A6.4-STAN-METH-002) and as mandated by the Supervisory Body.^{27,28}

Table 5. Status of methodological products on activities involving removals

Type	Title	Status	Paragraph
Methodological tool	Reversal risk assessment	Recommendation	26

26. The MEP considered the draft “Methodological tool: Reversal risk assessment” and took note of input received from stakeholders that was published on the UNFCCC website.²⁹ The MEP agreed to recommend that the Supervisory Body:
- (a) Consider the proposed range for the following parameters:
 - (i) Between 20 and 45 per cent for human-induced reversal risk factors;
 - (ii) Between 20 and 80 per cent for the sum of all human-induced reversal risk reduction factors;
 - (b) Select default values for the parameters identified in paragraph 26(a) of the draft methodological tool, taking into account the analysis provided in the cover note of the draft methodological tool and noting that the sum referenced in paragraph 26(a)(ii) should be allocated across individual reversal risk reduction factors (see table 2 of the draft methodological tool) according to the Supervisory Body’s policy judgment; and
 - (c) Adopt the draft methodological tool, as contained in annex 7 to this report.
27. Further, the MEP agreed, following the adoption of the “Draft methodological tool: Reversal risk assessment”, to seek a mandate to revise this draft methodological tool with respect to activities that reduce non-renewable biomass consumption when credible new evidence indicates such a revision would be warranted.

Agenda item 4. Relation with forums and other stakeholders

28. The MEP considered the input received from stakeholders on the following agenda items and thanked them for their comments:
- (a) Draft mechanism methodology: Cooking energy transitions;
 - (b) Concept note: Revision of methodological standards and tools for application to programmes of activities;
 - (c) Draft methodological tool: Emissions from electricity generation and consumption;
 - (d) Draft methodological tool: Sampling and surveys; and

²⁷ See <https://unfccc.int/sites/default/files/resource/A6.4-INFO-GOV-029.pdf>.

²⁸ See <https://unfccc.int/sites/default/files/resource/A6.4-STAN-METH-002.pdf>.

²⁹ See <https://unfccc.int/process-and-meetings/the-paris-agreement/article-6/article-64-pacm/stakeholder-engagement/calls-for-input/MEP014>.

- (e) Draft methodological tool: Reversal risk assessment.

Agenda item 5. Conclusion of the meeting

29. The members of the MEP adopted the report of the sixteenth meeting of the MEP. The report will be available on the UNFCCC website.³⁰
30. The MEP Co-Chair, Ms. Adriana Gutierrez, closed the meeting.
31. The proceedings of the open sessions of the meeting were broadcast to allow stakeholders to follow the discussion.³¹

³⁰ See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/article-64-supervisory-body/mep/meetings>.

³¹ See https://unfccc.int/process-and-meetings/the-paris-agreement/article-64-mechanism/calls-for-input#_26.

Annexes to the report

- Annex 1 - Draft mechanism methodology: Cooking energy transitions
- Annex 2 - Concept note: Revision of methodological standards and tools for application to programmes of activities
- Annex 3 - Draft mechanism methodology: Energy efficiency measures in household cooking
- Annex 4 - Information note: Analysis of matters raised by the Supervisory Body at its 22nd meeting on the “Draft mechanism methodology: Energy efficiency measures in household cooking”
- Annex 5 - Draft methodological tool: Sampling and surveys
- Annex 6 - Information note: Sampling and surveys requirements for designated operational entities
- Annex 7 - Draft methodological tool: Reversal risk assessment

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