

A6.4-MEP010

Meeting report

Tenth meeting of the Methodological Expert Panel

Version 01.0

Date of meeting: 1 to 5 December 2025

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), Mr. Simon Fellermeier, opened the tenth meeting.
2. Table 1 shows attendance at the meeting (*italics indicate virtual attendance*).

Table 1. Attendance

Co-Chairs	Members
Mr. El Hadji Mbaye Diagne	<i>Mr. Amr Osama Abdel-Aziz</i>
Mr. Simon Fellermeier	Ms. Enam Akoetey-Eyiah
	Mr. Ruy Anaya de la Rosa
	<i>Ms. Penelope Baalman</i>
	Mr. Daniel Cullenward
	Mr. Wojciech Galinski
	<i>Ms. Yaning Jin</i>
	Ms. Martha Ntabadde Kasozi
	<i>Mr. Braulio Pikman</i>
	Ms. Navjot Kaur Sandhu
	Mr. Lambert Schneider
	Mr. Samir Thapa
	Ms. Jessica Wade-Murphy de Jimenez
	Mr. Kenichiro Yamaguchi

Agenda item 1.2. Adoption of the agenda

3. The MEP adopted the meeting agenda, which was published as document A6.4-MEP010-AA.¹
4. 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 on the agenda 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-MEP010-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

5. The MEP took note that the dates of its meeting in 2026 to be held in Bonn, Germany, are as follows:
- (a) Eleventh meeting of the MEP (MEP 011), from 26 to 30 January 2026;
 - (b) Twelfth meeting of the MEP (MEP 012), from 9 to 13 March 2026;
 - (c) Thirteenth meeting of the MEP (MEP 013), from 13 to 17 April 2026;
 - (d) Fourteenth meeting of the MEP (MEP 014), from 22 to 26 June 2026;
 - (e) Fifteenth meeting of the MEP (MEP 015), from 7 to 11 September 2026;
 - (f) Sixteenth meeting of the MEP (MEP 016), from 30 November to 4 December 2026

Agenda item 2.2. Upcoming deadlines of relevance to stakeholders

6. The MEP took note of the deadline for stakeholders to submit proposed new methodologies and methodological tools for consideration at its twelfth meeting, as published on the UNFCCC website.³

Agenda item 3. Regulatory matters

Agenda item 3.1. Requirements for methodologies

7. The MEP continued its consideration of the development of the documents related to methodologies and activity participants (see Table 2) based on the “Standard: Application of the requirements of Chapter V.B (Methodologies) for the development and assessment of Article 6.4 mechanism methodologies” (document A6.4-STAN-METH-001)⁴ and as mandated by the Supervisory Body in the MEP workplan for 2025 (document A6.4-INFO-GOV-021).⁵

Table 2. Status of methodological products

Type	Title	Status	Paragraph
Methodological tool	Analysis of lock-in risk	Work in progress	8

8. The MEP considered the draft methodological tool “Analysis of lock-in risk” and agreed to continue working on the draft tool at its next meeting. The MEP advanced on drafting this tool, which includes an assessment of the technical and/or operational lifetime of equipment, emissions intensity, resource use efficiency, and definition of the lock-in risk.

³ See <https://unfccc.int/process-and-meetings/the-paris-agreement/paris-agreement-crediting-mechanism/methodologies#howtosubmit-methodologies>.

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

⁵ See <https://unfccc.int/sites/default/files/resource/A6.4-INFO-GOV-021.pdf>.

Agenda item 3.2. Removals

9. The MEP continued its consideration of the development of the documents related to removals (see Table 3), based on the “Standard: Requirements for activities involving removals under the Article 6.4 mechanism” (document A6.4-STAN-METH-002)⁶ and as mandated by the Supervisory Body for the MEP workplan for 2025 (document A6.4-INFO-GOV-021).⁷

Table 3. Status of methodological products on activities involving removals

Type	Title	Status	Paragraph
Methodological tool	Reversal risk assessment, including: a. Whether upper limits are needed in respect of the overall risk rating or specific risk factors within the tool, including options and science-based rationales for upper limit(s); b. Risk rating that constitutes a negligible risk; c. Any further categorization of risk; d. How remediation measures are taken into account in the risk assessment tool.	Work in progress	10

10. The MEP considered the draft “Methodological tool: Reversal risk assessment” and agreed to the working definitions for technical terms related to the quantification of reversal risks, remediation measures, and other parameters necessary to operationalize Equation 8 in the “Standard: Addressing non-permanence and reversals in mechanism methodologies”.⁸ The MEP agreed to continue to work on the draft tool at a future meeting.

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

11. The MEP continued its consideration of the revision of the clean development mechanism (CDM) methodologies, methodological tools, methodological standards and methodological guidelines (see Table 4).

Table 4. Status of the revision of CDM methodologies and methodological tools for the Article 6.4 mechanism

Type	Title	Status	Paragraph
CDM methodology	ACM0002: Grid-connected electricity generation from renewable sources	Work in progress	12

⁶ See <https://unfccc.int/sites/default/files/resource/A6.4-STAN-METH-002.pdf>.

⁷ See footnote 5.

⁸ See <https://unfccc.int/sites/default/files/resource/A6.4-STAN-METH-007.pdf>.

Type	Title	Status	Paragraph
CDM methodology	AMS-I.D.: Grid-connected renewable electricity generation	Work in progress	12
CDM methodological tool	Emissions from electricity generation and/or consumption	Call for public input	13
CDM methodological tool	Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation	Call for public input	13
CDM methodology	AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass	Work in progress	14
CDM methodology	AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user	Work in progress	14
CDM methodological tool	Calculation of the fraction of non-renewable biomass	Work in progress	14
Standard	Sampling and surveys for CDM project activities and programmes of activities	Work in progress	14
Guidelines	Sampling and surveys for CDM project activities and programmes of activities	Work in progress	14
CDM methodological tool	Determination of the remaining technical lifetime of equipment	Call for public input	15
CDM methodological tool	Project and leakage emissions from biomass	Work in progress	16

12. The MEP, due to prioritization of the work on the revision of “Tool: Emission factor for an electricity system”, did not consider the agenda item related to the revision of “ACM0002: Grid-connected electricity generation from renewable sources” and “AMS-I.D.: Grid-connected renewable electricity generation”. The MEP agreed to consider this agenda item at its next meeting.
13. The MEP considered the draft “Methodological tool: Emissions from electricity generation and/or consumption” that was prepared based on the revision of “Tool: Emission factor for an electricity system” and “Tool: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation”. The MEP agreed to seek inputs from stakeholders on the draft version of the tool, as contained in annex 1 to this report. The MEP will analyse the inputs and consider them in the preparation of a draft tool at its next meeting for consideration of the Supervisory Body.

14. The MEP considered the revision of “AMS-II.G.: Energy efficiency measures in thermal applications of non-renewable biomass”, “AMS-I.E.: Switch from non-renewable biomass for thermal applications by the user”, “Tool: Calculation of the fraction of non-renewable biomass”, “Standard: Sampling and surveys for CDM project activities and programmes of activities” and “Guidelines: Sampling and surveys for CDM project activities and programmes of activities”, together with the proposed mechanism methodology (PMM) “PMM004: Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions”, and agreed to continue working on the revision of the methodologies, standard, guidelines and the tool at its next meeting.
15. The MEP considered the draft “Methodological tool: Determination of the technical lifetime of equipment” that was prepared based on the revision of “Tool: Determining the remaining lifetime of equipment”. The MEP agreed to seek inputs from stakeholders on the draft version of the tool, as contained in [annex 2](#) to this report. The MEP will analyse the inputs and consider them in the preparation of a draft tool at its next meeting for consideration of the Supervisory Body.
16. The MEP considered the revision of “Tool: Project and leakage emissions from biomass” and agreed to continue working on the revision of the tool at its next meeting.

Agenda item 3.4. Standards/tools for Article 6.4 activities

17. The MEP would like to thank the proponents of the proposed mechanism methodologies for their submissions.
18. The MEP considered the proposed new methodologies, as shown in Table 5 below, and took into account the public inputs received regarding these submissions. These submissions are considered by the MEP following the “Procedure: Development, revision and clarification of methodologies and methodological tools”.⁹

Table 5. Proposed new 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	19
PMM002 (also referred to as A6.4-PNM002)	N ₂ O abatement from nitric acid production	Work in progress	20
PMM004 (also referred to as A6.4-PNM004)	Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions	Work in progress	21

19. The MEP considered the proposed mechanism methodology “PMM001: Production of ammonia through electrolysis of water, air separation and synthesis of hydrogen and

⁹ See <https://unfccc.int/sites/default/files/resource/A6.4-PROC-METH-001.pdf>.

nitrogen” and agreed to continue working on the proposed methodology at its next meeting. The proposed new methodology is intended for projects that produce less carbon-intensive ammonia, primarily with renewable electricity, for (i) Production of hydrogen (H₂) using electrolyzers to separate water into H₂ and oxygen (O₂), (ii) Production of nitrogen through air separation plants or other facilities that use renewable energy, and (iii) Synthesis of hydrogen and nitrogen to produce ammonia (Haber Bosch Process). The history of this bottom-up submission can be viewed on the UNFCCC website.¹⁰

20. The MEP considered the proposed mechanism methodology “PMM002: N₂O abatement from nitric acid production” and agreed to continue working on the proposed methodology at its next meeting. The proposed new methodology is intended for projects that significantly reduce levels of nitrous oxide (N₂O) emissions from the production of nitric acid. The history of this bottom-up submission can be viewed on the UNFCCC website.¹¹
21. The MEP considered the proposed mechanism methodology “PMM004: Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions” and agreed to continue working on the proposed methodology at its next meeting. The proposed new methodology is intended for projects that aim to transition to efficient cooking technology meeting the performance applicability conditions. The history of this bottom-up submission can be viewed on the UNFCCC website.¹²

Agenda item 3.5. Governance-related documents for Article 6.4 activities

22. The MEP took note of and provided input to the draft “Glossary: Article 6.4 mechanism terms”, which includes common and key terms used in the various Article 6.4 rules and regulations applicable to the Article 6.4 mechanism activities. The MEP further agreed that the secretariat will flag any definitions in which inconsistencies have been identified, or that may require improvement, for the MEP’s consideration when reviewing the relevant standards.

Agenda item 4. Conclusion of the meeting

23. The members of the MEP adopted the report of the tenth meeting of the MEP. The report will be available on the UNFCCC website.¹³
24. The MEP Co-Chair, Mr. El Hadji Mbaye Diagne, closed the meeting.
25. The proceedings of the open sessions of the meeting were broadcast to allow stakeholders to follow the discussion.¹⁴

¹⁰ See <https://unfccc.int/process-and-meetings/the-paris-agreement/paris-agreement-crediting-mechanism/a64-methodologies/A6.4-PNM001>.

¹¹ See <https://unfccc.int/A6.4-PNM002>.

¹² See <https://unfccc.int/A6.4-PNM004>.

¹³ See <https://unfccc.int/process-and-meetings/bodies/constituted-bodies/article-64-supervisory-body/mep/meetings>.

¹⁴ See <https://www.youtube.com/playlist?list=PLBcZ22cUY9RIAoOUkoTJpdwYe7-WaSGSW>.

Annexes to the report

Annex 1 - Draft Methodological tool: Emissions from electricity generation and/or consumption (version 01.0)

Annex 2 - Draft Methodological tool: Determination of the technical lifetime of equipment (version 01.0)

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Document information

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