

Agenda item 3.4.

Paragraph 14 (b) of the annotated agenda

PMM002: N₂O abatement from nitric acid production

Methodological Expert Panel – 11th meeting

26 to 30 January 2026

Bonn, Germany



MEP010 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 **reduce nitrous oxide (N₂O) emissions from the production of nitric acid**. These emissions can be reduced through:

- process optimization (primary abatement)
- secondary abatement (using catalysts within the reactor to decompose N₂O)
- tertiary abatement (by treating the flue gases to remove most of the N₂O)

The methodology is largely based on the CDM methodology ACM0019.

The history of this bottom-up submission can be viewed on the UNFCCC website.



Proposed methodology does not fully align with the Article 6.4 requirements => MEP to implement revisions to ensure alignment

- **Determining baseline emissions**
 - Proposed use of IPCC default values not aligned with Article 6.4 requirements
 - Use best available technology (BAT) as baseline approach (i.e. emission levels with best available primary catalysts)
 - Consultation with industry experts ongoing
- **Additionality demonstration**
 - Legal requirements to be assessed at each verification
 - Investment analysis to be demonstrated at the level of the methodology (not individual activities)
 - Common practice analysis tool be used with Approach A
 - Further consideration necessary whether lock-in constitutes a material risk



- **Applicability**
 - Applicable to existing nitric acid plants only
 - Applicable to plants with discontinued abatement (no abatement after 1 January 2021)
 - Not applicable to greenfield plants
- **Leakage emissions**
 - Include a cap to productions levels as the basis for crediting to avoid rebound effects
 - Address emissions from transport and production of the abatement technology through a default factor for simplicity
- **Monitoring**
 - Continuous monitoring, rather than exclusion of certain intervals



MEP to continue its consideration of the proposed new methodology

MEP to finalize the methodology for recommendation at MEP012.

