

## Agenda item 4.1

Paragraph 25 (d) of the annotated agenda.

# Revision of ACM0019 “N<sub>2</sub>O abatement from nitric acid production”

**CDM EB 101**

Katowice, Poland, 26 to 29 November 2018



## Procedural background

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At EB99, the Board considered the concept note on further prioritizing methodologies for revision to include non-binding best-practice examples, and requested the MP to revise “ACM0019: N2O abatement from nitric acid production”.

At MP77, the MP agreed on the revised draft and launched a call for public inputs (no inputs were received).



## Purpose

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- In order to identify methodological issues that could be addressed through best-practice examples, the current provisions of the methodologies were assessed and the database of project submissions (incomplete IRCs and requests for review) was reviewed.



### Inclusion of Non-binding best practice examples

- Example 1 –Design capacity

To exemplify how PPs that have used AM0028 and AM0034 in the 1st CP and apply ACM0019 for the 2nd CP will calculate the  $BE_y$  based on the actual production of nitric acid, which is capped by the maximum design capacity of the plant.

- Example 2 –N<sub>2</sub>O emission factor (2 examples)

To exemplify how PPs that have used AM0028 and AM0034 in the 1st CP will calculate the N<sub>2</sub>O emission factor ( $EF_{existing,y}$ ) based on the lowest values obtained during the first crediting period, capped by a default emission factor ( $EF_{default,y}$ ).

- Example 3 –N<sub>2</sub>O emission factor

To exemplify how project activities that involve new plants calculate the baseline emissions based on the N<sub>2</sub>O emission factor for nitric acid production for year y ( $EF_{new,y}$ ).

- Example 4 –Installation and maintenance of the monitoring system

To provide a best practice on how the monitoring system is to be installed and maintained throughout the crediting period based on the European Norm 14181 or any more recent update of that standard.



## Key issues and proposed solutions

In discussing the introduction of the best practice examples, the MP, undertook the following changes:

- Addressed a public query and reintroduced the monitoring parameter “ $P_{production,y}$ ” which was missing in the previous version and is considered relevant for this type of project activity;
- Clarified how “ $EF_{default}$  (emission factors according to the operating pressure of the ammonia burner)” decrease yearly by 0.2 kg N<sub>2</sub>O/t HNO<sub>3</sub> up to year 2030, and then **they will remain constant**, instead of continue to decrease until reaching 2.5 or 2.4.

Year	Low pressure (0 – 200 kPa)	Medium pressure (200 – 600kPa)	High pressure (Over 600 kPa)
2013	5.5	8.4	12.6
2014	5.3	8.2	12.4
2015	5.1	8.0	12.2
2016	4.9	7.8	12
2017	4.7	7.6	11.8
2018	4.5	7.4	11.6
2019	4.3	7.2	11.4
2020	4.1	7	11.2
2021	3.9	6.8	11
2022	3.7	6.6	10.8
2023	3.5	6.4	10.6
2024	3.3	6.2	10.4
2025	3.1	6	10.2
2026	2.9	5.8	10
2027	2.7	5.6	9.8
2028	2.5	5.4	9.6
2029	2.5	5.2	9.4
2030	2.5	5.0	9.2



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## Impacts

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The proposed revision will streamline the applicability of the methodology and facilitate its usability by the project participants.



## Recommendations to the Board

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The MP recommends that the Board adopt this draft methodology.



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