Agenda item 3.4.
Paragraph 21 of the annotated agenda

Methodological tool: Determination of the technical lifetime of equipment.

Article 6.4 Supervisory Body – 20th meeting
Bonn, Germany, 16 to 20 February 2026

UNFCCC Secretariat
Mitigation Division

Procedural background

The Supervisory Body of the Article 6.4 mechanism (SBM), at its fifteenth meeting, approved its workplan for 2025 for the Methodological Expert Panel (MEP) and requested the MEP to continue working on the revision of CDM methodologies / methodological tools / Standard / Guidelines, including the “Methodological tool: Determination of the technical lifetime of equipment”.

Purpose

This methodological tool provides requirements and options to determine the technical lifetime and the remaining technical lifetime of equipment.

- The tool can be used to estimate the remaining technical lifetime of equipment used in the baseline to calculate baseline emissions.
- It can also be used with the “Methodological tool: Analysis of lock-in risk” to estimate the technical lifetime of equipment used in A6.4 activities to evaluate the activity’s potential for determining lock-in risk.

The “Methodological tool: Analysis of lock-in risk” is currently subjected to public comments: however, such an analysis on lifetime is expected to be needed.

Key issues and proposed solutions

The methodological tool provides options and requirements for the determination of the technical lifetime and/or remaining technical lifetime of the equipment, in **order of priority**:

(a) Use of manufacturer's specified technical lifetime (section 5.2);

(b) Use of an expert evaluation (for existing equipment only) (section 5.3); or

(c) Use of conservative default values (section 5.4).

Minimum values: may be used for the purpose of determining the (remaining) technical lifetime of the equipment used in the baseline (to determine the remaining period subjected to claiming A6.4 ERs)

Maximum values: may be used for the purpose of determining the technical lifetime of the equipment used in the activity (to determine lock-in risk).

Consideration of public comments

A call for public inputs was launched from 10 to 31 December 2025. The MEP received two submissions in response to the call. The MEP would like to thank the authors of the inputs. The inputs received could be classified as follows:

Applicability of the tool for PoAs (currently not covered):

These inputs were considered by the MEP and the paragraph on the applicability of the tool for other scales was considered to be standard text and hence retained

Application of the default values and consideration of uncertainty:

These inputs were considered by the MEP and the tool was revised to include a table with a range of values to ensure conservativeness, without the need for adjustments based on uncertainty. These conservative default values are based on literature cited as normative references

Applicability of the tool for an assembly of components (e.g., power plants):

These inputs were considered by the MEP and the tool was revised to be applicable to an assembly of components (e.g., a power plant), as well as to single components (e.g., a steam turbine)

Consideration of public comments (2)

General requirements for the calculation of the remaining technical lifetime: The MEP clarified the requirement that the equipment has been operated and maintained according to the recommendations and operation manuals of the equipment supplier to ensure that the technical lifetime specified applies only to option (a) Manufacturer's specifications and option (c) Default values; and

Clarity on the requirements for the expert conducting the technical evaluation (option (b): These inputs were considered by the MEP and the provisions for the technical expert were deemed to be sufficiently clear and flexible. (ie. No further clarification)

Impacts

This methodological tool provides clear procedures and default values to establish the **technical lifetime** and **remaining technical lifetime** of equipment used in the baseline scenario, as well as to establish the **technical lifetime** expected for the purpose of analyzing lock-in risk.

Recommendations to the Supervisory Body

The MEP recommends the tool for adoption by the Supervisory Body.