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METHODOLOGY TOOL

GS4GG PAA MT400-08

TOOL 8: TECHNICAL ADDENDUM TO THE A6.4 TECHNICAL LIFETIME OF EQUIPMENT

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SUMMARY

This methodology tool defines additional criteria for the application of UNFCCC's [A6.4-AMT-006: Determination of the Technical Lifetime of Equipment V1.0](#) within Gold Standard for the Global Goals (GS4GG) approved methodologies.

These criteria ensure that the determination and application of Technical Lifetime (TL) and Remaining Technical Lifetime (RTL) are consistent with GS4GG principles of climate ambition, transition alignment, and environmental integrity. GS4GG methodologies require that lifetime assumptions also reflect decarbonization pathways, transition timelines, and avoidance of lock-in.

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1| INTRODUCTION AND SCOPE

- 1.1.1 | This document establishes a mandatory technical overlay for activity developers applying the [UNFCCC Article 6.4 Methodological Tool “Determination of the technical lifetime of equipment”](#) (A6.4-AMT-006) under the Gold Standard for the Global Goals (GS4GG).
- 1.1.2 | GS4GG methodologies shall employ Methodological Tool A6.4-AMT-006 approved by the Paris Agreement Crediting Mechanism (PACM) with additional requirements as stipulated in this document. These additional criteria ensure that application of A6.4-AMT-006 within GS4GG methodologies:
- a. Reflects both technical and transition-aligned lifetimes.
 - b. Avoids carbon lock-in and misaligned baselines.
 - c. Maintains consistency with GS4GG principles of ambition, conservativeness, and environmental integrity.

2| DEFINITIONS

- 2.1.1 | In addition to the terms defined in the GS4GG Glossary and the [A6.4-AMT-006](#) tool, the following definitions shall apply for the application of this tool:

Table 1. Terms and definitions

TERM	DEFINITION
Economic Lifetime	The expected period during which an asset remains economically viable to operate, considering operational costs, market shifts, and technology competitiveness, which may be significantly shorter than its physical engineering life.

3| APPLICABILITY

- 3.1.1 | This technical addendum applies universally to any GS4GG-approved methodology or project activity that utilizes the [A6.4-AMT-006](#) Methodological Tool for the determination of the Technical Lifetime (TL) or Remaining Technical Lifetime (RTL) of equipment.
- 3.1.2 | In alignment with GS4GG Paris Agreement Alignment (PAA) requirements, compliance with the additional criteria stipulated in this document is mandatory. Where inconsistencies or conflicts arise between the technical lifetime derived from [A6.4-AMT-006](#) and the regulatory, transition, or economic parameters outlined in this addendum, the requirements of this GS4GG tool shall supersede to ensure conservativeness.

4| NORMATIVE REFERENCES

- 4.1.1 | When applying this tool, the activity developer shall use the most recent, valid versions of the following documents available at the time of validation or crediting period renewal:
- a. UNFCCC [Article 6.4 Mechanism: Methodological tool - Determination of the technical lifetime of equipment \(A6.4-AMT-006\)](#).
 - b. GS4GG: [Paris Agreement Alignment \(PAA\) Requirements](#).

5| METHODOLOGY

- 5.1.1 | To determine the final applicable lifetime of equipment for baseline and crediting purposes under GS4GG, methodologies and activity developers shall apply [A6.4-AMT-006](#) in conjunction with the following mandatory criteria.
- 5.1.2 | **Policy and Transition Alignment:** Methodologies shall ensure consistency with host country Nationally Determined Contributions (NDCs), Long-term low-emission development strategies (LT-LEDS) and Sector-specific transition benchmarks. Where inconsistencies arise, lifetime assumptions shall be conservatively adjusted.
- 5.1.3 | **Applied Lifetime Determination:** The applied lifetime of baseline equipment shall be the lesser of:
- a. The Technical Lifetime (TL) determined under [A6.4-AMT-006](#); and
 - b. The timeline implied by host-party decarbonization mandates, sectoral transition pathways, or regulatory phase-out requirements, where available.
- 5.1.4 | **Application of TL/RTL and Conservativeness:** Application of TL/RTL shall:
- a. Avoid extending crediting periods in ways that delay low-carbon transitions.
 - b. Reflect increasing ambition over time through conservative baseline duration.
 - c. Apply adjustments where necessary to ensure conservativeness.
- 5.1.5 | **Economic Lifetime Limitations:** Methodologies shall assess the economic lifetime of equipment. Where shorter than TL, economic lifetime shall act as a limiting factor.
- 5.1.6 | **Maintenance and Evidence Requirements:** Where full TL is assumed:
- a. Evidence of maintenance in line with manufacturer specifications shall be required.
 - b. Documentation of Operation and Maintenance (O&M) practices shall be provided.
- 5.1.7 | **Best Available Technology (BAT) Adjustments:** Where sectoral transition benchmarks indicate a faster market shift than technical durability would suggest, the methodology shall apply a further downward

adjustment to the RTL to reflect the "best available technology" transition pathway.

DOCUMENT INFORMATION

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