QUALITY REPORT

Aperam BioEnergia

PUR-175613 · Puro · Brazil

Report ID: CM-B8D6FE74 · Generated: 2026-04-02 · Scoring Methodology: General v2.0

5.0 Overall Score out of 10	Integrity (35%)	5.2
	Transparency (25%)	5.0
	Claim Safety (25%)	4.6
	Documentation (15%)	5.4

Weights: Integrity 35% · Transparency 25% · Claim Safety 25% · Documentation 15%

Assessment Summary

The project is assessed under the Puro.earth Biochar Methodology and includes some key safeguards signals (FPIC and a grievance mechanism). However, core quantification and MRV elements (verified removals, leakage deduction value, and several monitoring parameters) were not found in the extracted record, and the verification report lists multiple corrective actions, increasing uncertainty and over-crediting risk.

Project Details

Registry	Puro
Registry ID	PUR-175613
Sector	renewable_energy
Country	Brazil
Vintage	2023
Project Methodology	Puro.earth Biochar Methodology Edition 2022 v3
VVB	EnergyLink Services
Monitoring Period	2024 — 2025
Confidence	High
Documents Reviewed	13 documents reviewed
Scored	2026-04-02

Red Flags

- Verified and claimed removal totals were not found in the extracted record, limiting confidence in credit quantity.
- The verification report (2025) lists multiple corrective actions related to biochar stock reporting and LCA calculations, indicating unresolved MRV weaknesses at verification time.

Score Breakdown

Integrity — 5.2 / 10

+ The verification report (2025) reports no material findings.

- Leakage is described as quantified, but the actual leakage deduction percentage was not found in the extracted record, weakening the integrity of net removals.

The project applies the Puro.earth Biochar Methodology (Edition 2022 v3) and uses a project-specific baseline approach, but the timing of any baseline reassessment was not found in the extracted record. The verification report (2025) reports no material findings, which is positive, yet it also requires corrective actions on biochar stock reporting and multiple LCA elements, which can directly affect quantified removals. Leakage is described as quantified, but the leakage deduction percentage was not found in the extracted record, leaving net climate benefit uncertain. Buffer pool contribution and any reversal events were not found in the extracted record, limiting assessment of permanence controls for stored carbon in biochar.

Transparency — 5.0 / 10

+ The VVB is identified as EnergyLink Services in the verification report (2025).

- Claimed vs verified removal totals were not found in the extracted record, reducing auditability of outcomes.

The verification report (2025) identifies the VVB as EnergyLink Services and provides a defined monitoring period (2024-03-01 to 2025-03-31). However, the extracted record does not include total removals claimed or verified, preventing a basic reconciliation of issuance quantities to monitored outcomes. Key MRV descriptors such as the usage monitoring method and any assumed/verified usage rate were not found in the extracted record, reducing replicability of the accounting. Registry details are minimal (listed as "other"), and the evidence document reference is not specific ("unknown").

Claim Safety — 4.6 / 10

~ Additionality is described as an investment test, but confirmation by the VVB was not found in the extracted record.

- CORSIA eligibility and CCP status were not found in the extracted record, increasing uncertainty for downstream claims and labeling.

Additionality is described as an investment test, but confirmation by the VVB was not found in the extracted record, which weakens confidence for high-integrity claims. The baseline is project-specific and key quantification items (verified removals, leakage deduction value) were not found in the extracted record, elevating over-crediting risk. CCP status and CORSIA eligibility were not found in the extracted record, creating uncertainty for buyers about how the credits can be marketed and whether any additional eligibility screens apply. The presence of corrective actions in the verification report (2025) related to LCA and stock reporting further increases the risk that early claims could be revised.

Documentation — 5.4 / 10

+ Ten documents were used with medium extraction confidence, suggesting a moderate evidence base.

- The evidence document list is not specific (listed as "unknown"), and multiple corrective actions in the verification report (2025) indicate documentation/MRV gaps.

The extracted record indicates 10 documents were used and the minimum extraction confidence is medium, supporting a mid-range documentation score. Still, the evidence document list is not specific (shown as "unknown"), which makes it hard to trace key assertions back to named sources. The verification report (2025) includes multiple corrective actions (biochar stock reporting and several LCA calculation inputs), suggesting that documentation and data systems were not fully satisfactory at the time of verification. Crediting period information was not found in the extracted record, limiting assessment of recency and program-cycle completeness.

Risk Indicators

● **Additionality**	Investment test stated; VVB confirmation not found
● **Permanence**	Buffer pool and reversal controls not evidenced in extracted record
● **Leakage**	Leakage described as quantified; deduction value not found
● **Baseline**	Project-specific baseline; reassessment timing not found
● **Safeguards**	FPIC and grievance mechanism documented
● **Double-claim**	CORSIA and CCP status not found in extracted record

What Would Improve This Score

→ Disclose and reconcile total removals claimed vs verified for the monitoring period, including calculation spreadsheets and issuance/retirement links on the registry.

→ Publish the quantified leakage deduction (percentage and rationale) and close the verification corrective actions on biochar stock reporting and LCA inputs with documented evidence.

Documents Reviewed

- Puro Standard General Rules v3.1.pdf
- Puro.earth Biochar Methodology.pdf
- Description_AperamBioenergia.pdf
- Audit_2023_AperamBioenergia_report.pdf
- Puro_Registration_AperamBioenergia.pdf
- Audit_2025_AperamBioenergia_statement.pdf
- Audit_2024_AperamBioenergia_statement.pdf
- Audit_2024_AperamBioenergia_report.pdf
- Report_MP5.pdf
- Audit_2022_AperamBioenergia.pdf
- Additionality_AperamBioenergia.pdf
- Audit_2023_AperamBioenergia_statement.pdf
- Audit_2025_AperamBioenergia_report.pdf

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