STRATEGIC ANALYSIS FORMAT

GHG Verification Engagement Planning Document

Verification performed in accordance with ISO 14064-3:2019

Applicable Standard(s)	ISO 14064-1:2018 (Assertion) / ISO 14064-3:2019 (Verification) / ISO 14065:2020 / ISO 14066:2011
Client / Organization	
Reporting Period	[DD-MM-YYYY to DD-MM-YYYY]
Level of Assurance	☐ Reasonable ☐ Limited
Prepared By	

1. Purpose and Scope

This Strategic Analysis format is used by Bioedge to document the planning-stage understanding, risk assessment, and verification approach for a Greenhouse Gas (GHG) verification engagement. It is completed by the verification team prior to executing the verification plan and forms part of the verification file retained under the requirements of ISO 14064-3 and ISO 14065.

The format is used where the client organization's GHG assertion (its GHG statement, inventory report, or emissions report) has been quantified, monitored, and reported in accordance with ISO 14064-1:2018 – Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals — and Bioedge is engaged to provide verification of that assertion in accordance with ISO 14064-3:2019 – Specification with guidance for the verification and validation of greenhouse gas statements.

1.1 Applicability

- Verification of an organizational-level GHG assertion (Scope 1, Scope 2, and where included, Scope 3 emissions) prepared under ISO 14064-1.
- Engagements at reasonable or limited level of assurance, as agreed in the verification/validation agreement.

1.2 Normative and Reference Documents

- ISO 14064-1:2018 – Organization-level GHG quantification and reporting.
- ISO 14064-3:2019 – Verification and validation of GHG statements.
- ISO 14065:2020 – General principles and requirements for bodies validating and verifying environmental information.
- ISO 14066:2011 – Competence requirements for GHG validation and verification teams.
- ISO/IEC 17029:2019 – Conformity assessment – General principles and requirements for validation and verification bodies.
- IAF MD6 – Application of ISO/IEC 17029 and ISO 14065 for GHG validation/verification.

2. Engagement Overview

2.1 Client and Contractual Information

Client legal name	
Sector	
Verification/validation agreement ref.	

2.2 GHG Assertion Under Review (ISO 14064-1 basis)

Organizational boundary approach	☐ Control (operational) ☐ Control (financial) ☐ Equity share
Consolidation approach applied by client	
Number and description of facilities/sites	
Operational boundary – Scope 1 sources	

Operational boundary – Scope 2 (location-based / market-based)	
Scope 3 categories included (if any)	
Base year	
Quantification methodologies / emission factor sources	
GHGs covered	CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF_3 – [confirm coverage]
Removals/offsets included in assertion	☐ Yes ☐ No – [detail]

2.3 Verification Terms (ISO 14064-3 basis)

Verification objective	To determine whether the GHG statement is materially correct and a fair representation of the GHG data and information, consistent with the specified verification criteria
Verification scope	
Verification criteria	
Level of assurance	☐ Reasonable ☐ Limited
Materiality threshold (quantitative)	
Verification period / reporting period	
Sites selected for physical/virtual visit	

3. Understanding of the Client Organization

Guidance: Document sufficient understanding of the client's business, GHG-relevant activities, and regulatory context to inform risk identification (ISO 14064-3, Clause 5.3).

3.1 Business and Operations

- Nature of business, products/services, and key operating locations: [ ]
- Key GHG-emitting processes and equipment (combustion, process emissions, fugitive, mobile): [ ]
- Significant changes since prior period (M&A, new sites, decommissioning, process changes): [ ]

3.2 Regulatory and Reporting Context

- Applicable regulatory schemes (e.g. PAT Scheme, CCTS, EU CBAM exposure, state pollution control norms): [ ]
- Prior verification history and any qualified opinions, CARs, or restatements: [ ]

3.3 Data Management System

- Data collection process (manual/metered/estimated) and frequency: [ ]

- IT systems / EHS software used for GHG data aggregation: [ ]
- Internal controls over data (review, approval, reconciliation, version control): [ ]
- Roles and competence of client's inventory preparation team: [ ]

4. Verification Team and Competence

Role	Name	Sector Competence Ref.	Conflict of Interest Check
Team Leader / Lead Verifier			☐ Cleared
Trainee Verifiers (Team members)			☐ Cleared
Technical Expert (if required)			☐ Cleared
Independent Reviewer			☐ Cleared

Basis for competence determination should reference IAF MD6 sector scope and ISO 14066 competence criteria (GHG, sector/technical, and audit/verification competence).

5. Strategic Risk Analysis

Refer: PBPL-RAC-F035 (Risk Assessment Considerations)

Overall engagement risk rating: ☐ High ☐ Medium ☐ Low

6. Materiality Determination

Total GHG assertion (tCO_2e), reporting period	
Materiality threshold applied (%)	
Basis for threshold selection	[Level of assurance, intended use, regulatory requirement, precedent from prior engagements]

7. Strategic Analysis Conclusion and Verification Approach

7.1 Overall Strategic Assessment

[Narrative summary of the verification team's understanding of the client, the GHG assertion, key risk areas identified, and rationale for the proposed verification approach.]

7.2 Verification Approach

- Verification method: ☐ Site-based ☐ Desk-based / remote ☐ Hybrid
- Use of sampling: ☐ Yes – refer Sampling Plan ☐ No – 100% review
  Refer: PBPL-VSP-F018 (Verification Sampling Plan)

- Sampling basis (risk-weighted site/data selection rationale): [ ]
- Analytical procedures planned (trend analysis, ratio analysis, benchmarking): [ ]
- Use of technical experts / sector specialists: [ ]
- Reliance on client's internal controls (extent and justification): [ ]

7.3 Sites / Facilities Selected for Verification

Site / Facility	% of Total Emissions	Selection Rationale	Visit Type
			☐ Physical ☐ Remote
			☐ Physical ☐ Remote

8. Resource and Timeline Planning

Activity	Responsible	Target
Strategic analysis & risk assessment		
Verification plan finalization		
Document/evidence request to client		
Site visits / remote verification		
Draft findings & CAR issuance		
Client response to CARs		
Independent technical review		
Verification opinion issuance		

9. Review and Approval

This Strategic Analysis has been reviewed to confirm it appropriately informs the Verification Plan and provides a sound basis for the verification engagement, consistent with Bioedge's impartiality and competence requirements under ISO 14065.

Role	Name	Signature	Date
Prepared by (Team Leader)			
Approved by (Director-Operations)			