



NES Quality Management System (Form)

Code: **NES-D-24**

Issue/Rev. no. 02/00

Issue date: 01 /08/2024

GHG Inventory Assurance

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Climate change is an urgent global crisis demanding immediate action. Egypt committed to reduce emissions by 37% in the electricity sector (80 Mt CO₂e), 65% in the oil and gas sector (1.7 Mt CO₂e), and 7% in the transportation sector (9 Mt CO₂e) by 2030 compared to business-as-usual, conditional on external support.

As climate concerns intensify, transparent reporting of greenhouse gas (GHG) emissions, or carbon footprints, is increasingly essential. Driven by legislation, market demands, and a desire to manage risks and enhance reputation, many organizations are voluntarily quantifying and disclosing their GHG emissions.

NES offers independent verification services aligned with ISO 14064-1 to ensure the credibility of your GHG inventory. By accurately measuring and reporting emissions, organizations can:

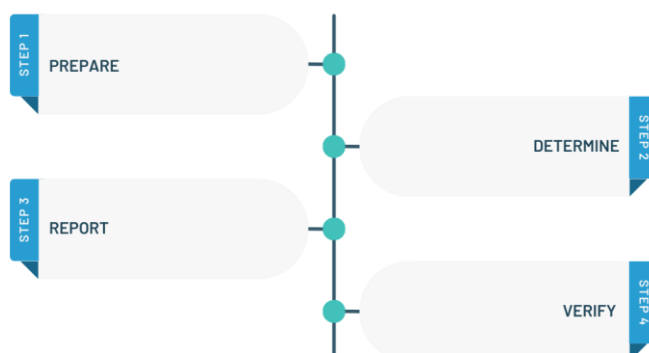
- **Comply with regulations**
- **Demonstrate environmental leadership**
- **Manage financial risks**
- **Improve operational efficiency**
- **Contribute to a sustainable future**

Our verification process involves defining the scope of assessment, quantifying emissions, generating comprehensive reports, and conducting rigorous independent reviews.


By partnering with NES, you can build trust, reduce emissions, and position your organization as a climate leader.

GHG Inventory Assurance

4 STEPS OF GHG Inventory Assurance



Step # 1
Prepare

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To initiate the GHG inventory verification process, a comprehensive understanding of ISO 14064-1 , 14064-3 14067 standards and GHG inventory requirements is essential.

The first step involves defining the precise boundaries of the organization undergoing verification. This typically entails assessing operational, financial, and equity control over entities that generate emissions.

Subsequently, relevant data must be gathered to quantify emissions across three categories:

- **Scope 1:** Direct emissions from owned or controlled sources.
- **Scope 2:** Indirect emissions from purchased electricity, heat, or cooling.
- **Scope 3:** Indirect emissions across the entire value chain, including waste, procurement, and employee travel.

Step #2

Determine Your GHG Inventory

Your organization's GHG inventory is calculated using data collected from within your operations and from your supply chain partners. This data forms the foundation for estimating your greenhouse gas emissions. Business activities are typically converted into GHG emissions through standardized factors.

Step #3

Report Your GHG Inventory

GHG inventory reporting must be comprehensive, consistent, and transparent. You'll create a detailed report outlining your methodology for calculating emissions and presenting the results.


Step # 4

Verify Your GHG Inventory

NES provides an independent assessment of your GHG inventory to confirm its accuracy, reliability, and robustness. This verification builds confidence in your emissions data, enabling informed decision-making and effective communication.

Why Choose NES for Third-Party Verification?

- **Protect Your Reputation:** A verified GHG inventory strengthens your organization's credibility and safeguards against accusations of greenwashing.
- **Inform Strategic Decisions:** Accurate and reliable emissions data empowers informed decision-making and effective carbon management strategies.
- **Mitigate Risks:** Independent verification reduces the risk of operational and reputational harm caused by errors or inaccuracies.

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- **Enhance Your Brand:** Showcase your commitment to sustainability by promoting your verified GHG inventory using NES logos and marketing materials.

The NES Verification Process

NES conducts independent third-party verifications aligned with global standards. Our process involves three key stages:

Stage 1: Pre-Verification This initial assessment evaluates your organization's readiness for full verification. We analyze your operations and identify potential risks to develop a tailored verification plan.

Stage 2: Verification A comprehensive review of your GHG inventory is conducted in accordance with ISO 14064-1. This includes examining your data collection, analysis, and reporting methods. On-site visits may be required to gather additional information.

Stage 3: Post-Verification Review A final evaluation ensures the overall quality and integrity of the verification process. This internal quality control step provides additional assurance without requiring client involvement.

To inquire about our verification services, please contact a member of our team.

