



CSIR-INDIAN INSTITUTE OF PETROLEUM (Training)



ITEC Program on

“GHG REPORTING AND VERIFICATION: from National inventories to Project & Entity Level”

Duration: 9TH TO 20TH November 2026

Sponsored By MEA, New Delhi, India

Venue: CSIR-Indian Institute of Petroleum, Dehradun India

Program Objectives

The adoption of the Enhanced Transparency Framework (ETF) under Article 13 of the Paris Agreement, together with its modalities, Procedures and Guidelines (MPGs), has fundamentally reshaped how countries measure, report and verify their GHG emissions. Through the Biennial Transparency Report (BTR), all parties – including developing countries – submit National Inventory Documents (NIDs) and Common Reporting Tables (CRTs) to a common standard, which are then examined through a facilitative, multilateral Technical Expert Review Process. The program spans both levels of GHG accounting – national level reporting under the ETF/BTR and project and entity level quantification, verification and validation under ISO 14064. It equips practitioners with the methodological grounding and hands-on software skill needed to compile robust national GHG inventories across all IPCC sectors, apply quality assurance and uncertainty analysis, develop country specific emission factors, address mitigation measures and undertake life cycle assessment. It combines conceptual sessions and practical training on the IPCC inventory software Simpro and GREET.

Course Contents

• Evolution of global Green House Gas – GHG emission reporting
• National GHG Inventory of Energy Sector
• National GHG Inventory of Transport Sector
• National GHG inventory of Industrial Processes and product use
• Mitigation measures: Energy Efficiency and Energy Management
• National HHG, Inventory(s), Agri, Land use change, Waste
• Development of Country – specific Emission Factors
• GHG Verification and Validation-LCA
• Lab demos / Hands on Training on IPCC, Simpro and GREET

Outcomes of the Training Program

- Understand the fundamental principles, methodologies, and frameworks for **Greenhouse Gas (GHG) accounting, reporting, and verification**.
- Explain the linkages between **national GHG inventories, organizational/entity-level inventories, and project-level GHG accounting**.
- Apply relevant international standards, guidelines, and reporting frameworks for preparing credible and transparent GHG inventories.
- Identify appropriate **emission sources, activity data, emission factors, boundaries, and calculation methodologies** for GHG quantification.
- Understand the key requirements and processes involved in **GHG verification**, including materiality, risk assessment, evidence collection, sampling, and verification conclusions.
- Evaluate the quality, completeness, consistency, and reliability of reported GHG data.
- Gain practical insight into preparing GHG reports and supporting documentation that are **accurate, transparent, consistent, and verifiable**.
- Strengthen participants' ability to support organizations and projects in meeting **regulatory, voluntary, and stakeholder requirements** for GHG reporting and assurance.

Who Should Attend

The program is intended for **mid-career and senior-level professionals** from ITEC partner countries, including:

- **Government officials, national inventory compilers, climate change focal points, environmental regulators, researchers and technical staff from developing countries engaged in national GHG reporting, transparency and sustainability work.**

Eligibility

- Educational qualification in Engineering / Science / Technology/Environmental Sc, Climate studies, energy sustainability, economics and management
- Preferably **5–10 years or more of relevant professional experience**

Contact

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