Environment, energy and climate

GHG Inventory: ISO 14064-1:2018 and GHG Protocol

Two days to learn how to build your company's greenhouse gas inventory under ISO 14064-1:2018 and the GHG Protocol: boundaries, scopes 1, 2 and 3, documented emission factors, data quality. The workshop calculates your site's inventory from your invoices and meter readings, then turns it into a reduction plan and a report ready for verification.

Duration : 2 days

Objectives

1. Explain the requirements of ISO 14064-1:2018 and the GHG Protocol presentation in scopes 1, 2 and 3
2. Define organisational and operational boundaries, the base year and the recalculation policy
3. Build an activity data collection plan and a register of sourced emission factors
4. Calculate a site's emissions, including scope 2 under the location-based and market-based methods
5. Build a reduction plan and prepare the inventory report for verification

Programme

Day 1 — morning

• Who asks for a carbon footprint and in what form: European customers, banks and funders, ESG questionnaires

• ISO 14064-1:2018, GHG Protocol, product footprint: three answers to different questions

• Organisational boundary and consolidation approaches; operational boundary, direct and indirect emissions

• Base year and recalculation policy

Day 1 — afternoon

• Scope 1: fuels, fleets, refrigerants, process emissions

• Scope 2: purchased electricity, location-based and market-based methods, on-site solar generation

• Scope 3: the 15 categories, screening criteria and written justification of exclusions

• Emission factors: recognised sources, year, unit, global warming potential, traceability

Day 2 — morning

• Workshop: your site's collection plan, data item by data item (source, owner, frequency, control)

• Workshop: calculation of the site's scopes 1 and 2 on your actual invoices and readings

• First screening of scope 3 categories on your purchases and transport

• Data quality, uncertainty and review by someone who did not do the calculation

Day 2 — afternoon (workshop)

• From inventory to reduction plan: ranking of emission sources, levers, targets and pathway

• Inventory report: boundaries, methods, exclusions, results and evidence file

• Verification by a body accredited to ISO 14064-3:2019: how to prepare for it

• Joint GHG Protocol–ISO standard in preparation: what remains applicable today; knowledge test

Teaching methods

• Calculation on your actual data: electricity and fuel invoices, refrigerant register, purchases

• Traceable calculation file template and emission factor register handed to participants

• Exercises in QHSE and finance pairs to cross-check technical and accounting data

• Case of an industrial exporter receiving three different footprint requests in the same week

• Final test on boundary and calculation rules

Assessment and documents

Knowledge test at the end of the session and feedback survey at D+1. Each participant receives a numbered training certificate, verifiable online; the company receives the training report and the first calculation of its scopes 1 and 2 carried out in the workshop.

Bilingual materials for every participant; each classroom course comes with its digital twin on OmniLearn.

Good to know

This course is part of the ISO 14001:2026 certification path. To go further: “Product Carbon Footprint: ISO 14067:2018” for a given reference, or “Carbon Neutrality: ISO 14068:2026 (formerly ISO 14068-1:2023)” to frame a neutrality claim.

Practical information

Duration	2 days
Group size	Groups of 6 to 12 participants, in-company
Format	In-company, face to face on your site
Language	French, Darija or English; bilingual materials
Funding	OFPPT special training contracts (TFP), GIAC, Maroc PME: we prepare the applications with you, at no extra cost.
Programme customisation	Programme adapted to your procedures, your equipment and your audience

Frequently asked questions

What is the difference between a GHG inventory, a carbon footprint and an ISO 14064-1 inventory?
In everyday use, none: they are three names for an organisation’s annual emissions inventory. ISO 14064-1:2018 sets its requirements, the GHG Protocol presents it in scopes. A product’s footprint is a different calculation, covered in a separate course.

Do we have to choose between ISO 14064-1 and the GHG Protocol?
No. A single inventory can meet both if the method is written down. The GHG Protocol and ISO are preparing a joint standard; until it is published, ISO 14064-1:2018 and the GHG Protocol Corporate Standard remain the references.

Is scope 3 calculated during the course?
It is screened and framed: you review the 15 categories, keep those that matter and justify the exclusions. A full scope 3 calculation needs supplier data that cannot be gathered in two days; the course gives you the collection plan to do it.

Does the course supply emission factors?
It teaches how to choose and document them: official or recognised source, year, area, unit, licence of use. The exercises use factors whose source is cited; a factor without a reference would make your inventory unverifiable.

Who should attend?
The person who will lead the inventory (QHSE, CSR or energy), a representative of finance or management control who holds the invoices, and if possible an industrial manager. This trio covers most of the data to collect.