Environment, energy and climate

ISO 50001:2018 — Energy Management

Two days to build an energy management system under ISO 50001:2018 that actually lowers consumption instead of just thickening the documentation. Energy review, significant energy uses, indicators, baseline, purchasing and design: each step is worked on your invoices, meters and equipment, up to your site's action plan.

Duration : 2 days

Objectives

1. Explain the requirements of ISO 50001:2018 and how they fit with ISO 14001:2026 and ISO 9001:2026
2. Conduct an energy review and identify significant energy uses
3. Build normalised energy performance indicators and an energy baseline
4. Build energy performance into operational control, design and purchasing
5. Organise measurement, verification of savings and the internal energy audit

Programme

Day 1 — morning

• Why an energy management system: the bill, decarbonisation, customer and funder expectations

• Structure of the standard and vocabulary: use, consumption, energy performance, EnPI, baseline

• Context, leadership, energy policy and the energy management team

• ISO 50001 and the mandatory energy audit in Morocco (Law 47-09): what certification changes for a site subject to it

Day 1 — afternoon

• Energy review: invoices, meter readings, breakdown by use, relevant variables

• Significant energy uses: steam, cooling, compressed air, furnaces, motors and pumps

• Exercise: first breakdown of your site's uses from your invoices

• Improvement opportunities and ranking rules

Day 2 — morning

• Energy performance indicators and energy baseline, following the principles of ISO 50006:2023

• Energy objectives, targets and action plans

• Operational control and maintenance: instructions, settings, leaks, shutdowns and restarts

• Design and purchasing: energy criteria for equipment, installations and purchased energy

Day 2 — afternoon (workshop)

• Metering plan and collection of energy data

• Measurement and verification of savings against an adjusted baseline

• Internal energy audit and management review

• Workshop: indicator and action plan for a significant use on your site; knowledge test

Teaching methods

• Exercises on your electricity and fuel invoices and your meter readings
• Calculation of an indicator normalised by output or degree-days on a supplied spreadsheet
• Case studies from agri-food and metalworking plants
• Maintenance and production pairs working on significant uses
• Mid-course quiz on the energy review, final test on all the requirements

Assessment and documents

Mid-course quiz and knowledge test at the end of the session, feedback survey at D+1. Numbered training certificate, verifiable online, for each participant; the company receives the training report and the energy performance indicator built in the workshop.

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

Good to know

To prepare for or make use of an energy audit, see “Energy Audit: ISO 50002-1:2025 (formerly ISO 50002:2014)”. To audit the system once in place, see “Internal Auditor ISO 14001 / ISO 50001”.

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

Does an ISO 50001 certificate exempt us from the mandatory energy audit?
Decree 2-17-746 provides an exemption for activities covered by a certified energy management system, for the validity of the certificate. Annual declarations to AMEE remain due. The course explains how to check that the certificate’s scope really covers the activities concerned.

Do we need an ISO 14001 or ISO 9001 system already?
No, ISO 50001 can be implemented on its own. Where a system exists, the common structure lets you share document control, internal audit and management review: the course shows how to build on what you have.

Has the standard been revised recently?
ISO 50001:2018 remains the edition in force. It received an amendment in 2024 requiring climate change to be considered in the analysis of context; no new edition has been announced.

What data should we bring?
Ideally twelve months of electricity and fuel invoices, sub-metering readings if they exist, production data over the same period and the list of main energy-consuming equipment. Failing that, the workshop works on a use for which data exist.