FLOWBOX

ISO 50001: an obligation you can turn into savings

The EU Energy Efficiency Directive requires Member States to ensure that enterprises above specified energy consumption thresholds implement a certified energy management system or undergo energy audits. A well-implemented system can deliver more than a certificate: the potential for sustained energy cost reductions and stronger evidence of energy management for customers, lenders and procurement processes.

10–20%

energy cost savings at certified sites

4 years

Maximum interval between mandatory energy audits where no qualifying exemption applies.

Multiple sites, one system

A single certificate may cover multiple sites, subject to certification requirements.

DOES IT APPLY TO YOUR COMPANY?

> 85 TJ/year

(approximately 23.6 GWh/year)

Certified energy management system required

A certified energy management system is required under the EU framework, with implementation by 11 October 2027. ISO 50001 is a recognised route. Specific obligations and enforcement are governed by national law.

10 to ≤ 85 TJ/year

(approximately 2.8–23.6 GWh/year)

Energy audit or qualifying certified management system

An energy audit is required at least every four years unless the enterprise operates a certified energy management system meeting the applicable exemption requirements. The EU deadline for first audits by newly obliged enterprises was 11 October 2026; national rules apply.

Thresholds refer to average annual energy consumption over the previous three years, taking all energy carriers together. GWh figures are approximate conversions; the EU thresholds are expressed in TJ. Source: Directive (EU) 2023/1791, Article 11. Check applicable national legislation.

WHY CHOOSE ISO 50001 RATHER THAN RELY ON PERIODIC ENERGY AUDITS?

Real savings

Measurable objectives and ongoing accountability – not a report in a drawer.

Stay on top of energy-related requirements

Keep applicable energy-related requirements and responsibilities under review.

Coordinated management across sites

Manage multiple sites within a common energy management system.

Customer requirements and reporting

Support customer requirements and sustainability reporting with structured energy data.

Tenders

ISO 50001 certification can be an advantage where energy management is relevant to procurement criteria.

Better operational control

Manage energy performance with clear indicators, targets and responsibilities.

SOLUTION

FLOWBOX ISO 50001: one system for the entire ISO 50001 cycle

From energy data to management review: FLOWBOX brings information, action plans and records together to support the ongoing operation of your energy management system and preparation for audits.

What you get

- **Start with the data you have** – use energy bills and manual meter readings, then expand metering as needed.
- **Key energy management elements in one place** – significant energy uses (SEUs), energy performance indicators (EnPIs), energy baselines (EnBs) and action plans.
- **Respond to deviations early** – monitor EnPIs, receive automatic alerts and manage corrective actions in one place.
- **Role-based dashboards** – for energy managers, operations and top management.
- **Document audit evidence as you go** – keep records organised throughout the year.
- **Prepare inputs for management review** – bring relevant information together in the system (Clause 9.3).

What remains with top management

The standard requires an active role of top management. Software cannot replace it, but it gives you the data for decisions.

→ Leadership, commitment and energy policy

→ Establishing and authorising the energy management team

→ Providing resources and ensuring competence

→ Evaluation and decisions through management review

Already certified to ISO 9001, ISO 14001 or ISO 45001?

The common structure makes integration easier. Build on existing processes and add the energy-specific requirements of ISO 50001.

PATH TO CERTIFICATION

1

Energy management team

Assign responsibilities and authority for implementing and maintaining the EnMS. One person may fulfil the team's role where appropriate (Clause 5.3).

2

Implementation with FLOWBOX

Use FLOWBOX to support energy review, indicators, baselines and action plans. Complete the internal audit and management review before certification.

3

Certification body

Select an independent certification body accredited for ISO 50001.

4

Certification and ongoing audits

Prepare for certification, annual surveillance and recertification audits, supported by organised records in FLOWBOX.

FLOWBOX provides software to support implementation and ongoing energy management. The need for external advice depends on your organisation's expertise and resources.

> *"ISO 50001 is primarily about measuring, evaluating and taking measures that lead to savings. FLOWBOX gives us all the tools we need to cover that."*
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> JIŘÍ PAJER · MANAGING DIRECTOR, GRAMEX S.R.O. · FIRST CERTIFIED TO ISO 50001 IN 2021

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Where do you stand?

We assess which requirements apply to your company based on your energy consumption data and show what implementation would involve.

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