ISO 50001:2018
The next generation of Energy Management

The rising costs of energy, the need to handle resources responsibly and the increase of global trade all require new and concrete approaches to energy usage. In view of demands for climate protection, carbon accounting, greenhouse gas and financial grant incentives, implementation of a sustainable energy management system will help improve your bottom line.
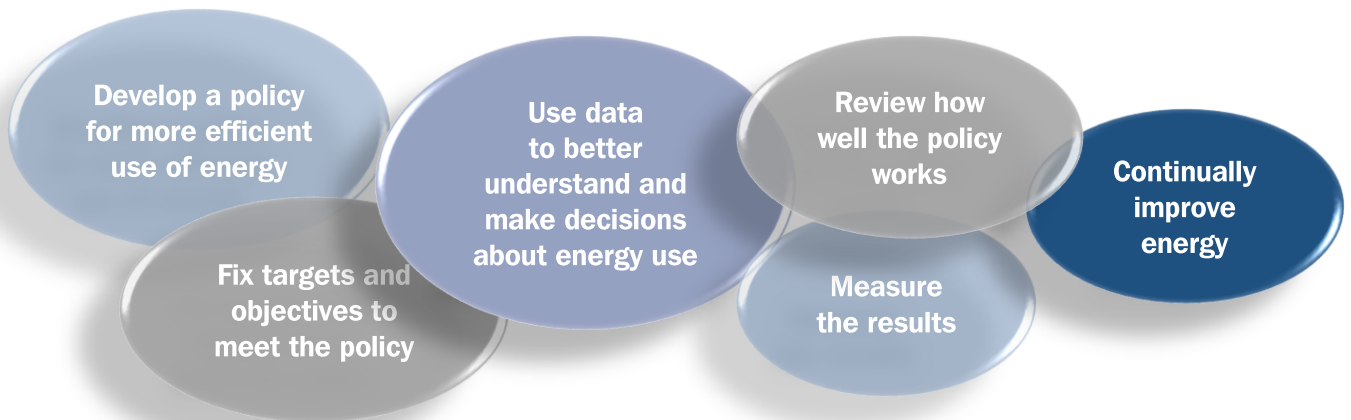
With its current revision published on August 20, 2018, the Energy Management Standard ISO 50001:2018 aims to help organizations establish the systems and processes to improve their energy performance, including efficiency and consumption. ISO 50001 is designed to help companies enhance their use of energy-consuming assets, evaluate and prioritize the implementation of energy-efficient technology, and promote efficiency throughout the supply chain. The standard specifies requirements for measurement, documentation and reporting, equipment design and procurement processes. Using the familiar Plan-Do-Check-Act model, it is applicable to all types and sizes of organizations.

Using less energy to generate more growth

Businesses that produce more products using fewer resources and that cut their emissions are able to operate at a lower cost have an advantage over the competition. Furthermore, energy efficiency is a driver of new business models, innovative technologies and services that can give businesses an additional advantage.

ISO 50001:2018 provides a framework of requirements for your organizations

Develop a policy for more efficient use of energy

Use data to better understand and make decisions about energy use

Review how well the policy works

Continually improve energy

Fix targets and objectives to meet the policy

Measure the results

Considering that energy cost account for anywhere between 10 and 40% of all production cost, it literally does 'pay' to be energy-efficient. Returns on investments in energy efficiency tend to be higher at the moment than returns on secure investments in the capital market.

Improving the performance of your business: step by step

Cost savings, ISO 50001 helps you:

- ✓ identify how much and what type of energy is being used where
- ✓ implement controls to manage usage
- ✓ find areas that waste energy
- ✓ improve purchasing procedures

Legal compliance, ISO 50001 helps you:

- ✓ keep track of all legal requirements applicable to your organization
- ✓ prevent fines, reduce insurance premiums
- ✓ communicate relevant legal information to staff and stakeholders
- ✓ be prepared when legislation changes

Reputation, ISO 50001 helps you:

- ✓ position yourself with an ethical and credible image
- ✓ reduce your carbon footprint
- ✓ improve your competitive advantage
- ✓ access new markets

Continuity, ISO 50001 helps you:

- ✓ be aware of energy alternatives
- ✓ understand the energy market in your country
- ✓ improve the use of alternative (natural) sources
- ✓ saving continuously energy

ISO 50001:2018 – updates and key provisions

Aside from the adoption of the High Level Structure HLS, which improves compatibility with other ISO management system standards (e.g. ISO 14001, ISO 9001, ISO 45001), the revised standard provides greater clarification of existing concepts and includes new definitions including energy performance improvement.
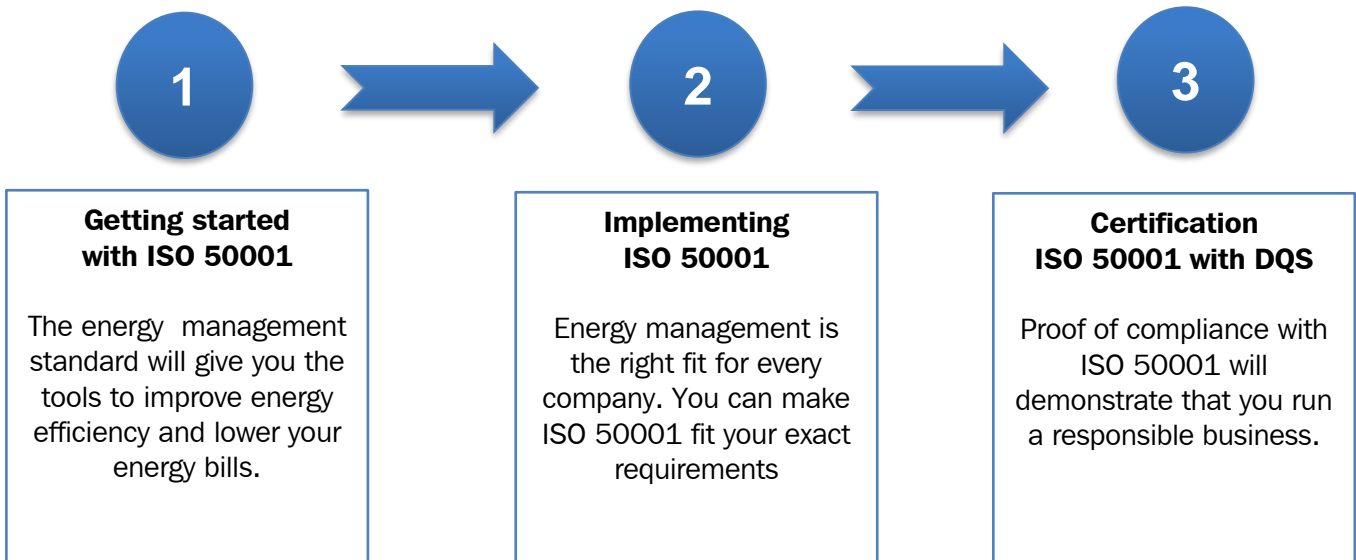
Most of the changes in ISO 50001:2018 vs. ISO 50001:2011 are due to the adoption of HLS, while some are specific to energy management:

Scope	How to plan, implement, maintain and update an energy management system (EnMS); (Clause 1)
Context of the organisation	Identify internal and external issues that affect the EnMS' capability to improve energy performance; to include legal and other requirements. (Clause 4)
Leadership	The revised version calls for top management to bear responsibility for the effectiveness of the EnMS (Clause 5)
Planning	Introduces risk based thinking to evaluate the risks and opportunities associated with improving the energy performance. (Clause 6)
Support	People, resources, know-how are the factors that make or break an EnMS. This includes training, documenting information and control of data. (Clause 7)
Performance Evaluation	Determine what information needs to be measured and evaluated; including internal audits. (Clause 9)
Improvement	Increased emphasis on objectives and action. Provide evidence of continuous improvement through measuring and monitoring.
Management review	Top management's evaluation of their management system
Communication	Needs to be specific: who communicates what, when, how and to whom
Documentation	Details of the energy management system as well as supporting records need to be in writing, and archived.
Non-conformity Corrective action	Items that do not fulfill standard or own requirements; e.g. identified in an aud Actions taken to remedy non-conformities.
Energy review	An analysis of energy usage and determination of EnPI, EnB and the energy collection plan below.
Energy baseline (EnB)	The starting point from which an organization's energy performance is measure
Performance Indicators (EnPI)	The particular values used to measure energy performance.

Are you ready for energy management?

Your company has not implemented ISO 50001 yet:

(1) → (2) → (3)

Getting started with ISO 50001	Implementing ISO 50001	Certification ISO 50001 with DQS
The energy management standard will give you the tools to improve energy efficiency and lower your energy bills.	Energy management is the right fit for every company. You can make ISO 50001 fit your exact requirements	Proof of compliance with ISO 50001 will demonstrate that you run a responsible business.

Your company is already certified ISO 50001 - Transition: Getting ready

If your organization already employs an energy management system according to the previous version, that is ISO 50001:2011, you will need to make some adjustments prior to undergoing a transition audit to the new one:

Read the ISO 50001:2018 → Setting up an implementation plan → Identify a close organizational gaps → Awareness training for all involved staff → Updating the existing Management system → Demonstrate verification of effectivenes through evaluation → Make arrangements for the transition

Transition timeline: save time and energy by transitioning early

The certificates issued to the old standard will expire on August 19, 2021. After that, all audits must be carried out according to the new ISO 50001:2018. Please note that audits to the old standard can only be conducted until February 19, 2020. We recommend transitioning early to take advantage of the benefits of the new management approach.

DQS transition approach

DQS highly recommends making the transition together with a regular or anticipated re-certification audit, although transition is possible during any scheduled re-certification or surveillance audit or at any other moment. If transition is carried out as recertification and your management system fulfils all requirements of ISO 50001, you will receive a new certificate with a validity of three years and a new certification cycle starts. During regular surveillance audits the further development of your management system will be monitored.

Transition in two steps

- Readiness review (based on a stage 1 audit - normally on site), including a review of the internal project plan for transition and evaluation of the changes made to the management system). The review will give you confidence for a successful transition audit or identify possible action needs.
- Transition audit (based on a stage 2 audit - on site): A comprehensive system audit on site, which evaluates implementation of the revised standard requirements and effectiveness of your management system.

A sensible way to start: Gap Audits

An additional "upstream" gap audit gives you the advantage of knowing about the resources and time needed for a successful transition in advance. During a gap audit, the DQS auditor will review your entire system and all new aspects of the standard. This allows you to identify potential need for action and keeps you safe from surprises during the transition audit itself. Gap audits can be conducted at any time and independent of regularly scheduled audits. A successful gap audit may be considered the equivalent of a Stage 1 Readiness Review.

Certification ISO 50001:2018 with DQS

To find out how your organization can benefit the most from transitioning to the new standard, and to schedule gap or any other audits, please contact the local DQS office in your area to receive an individual offer.

QUALITY

...understanding the requirements

Finally, saving energy and using energy more efficiently also benefits the climate as it reduces our carbon emissions, helps to reduce dependency on energy imports, encourages development and job creation, and protects public health. Energy efficiency benefits all sides – and also saves your money

DQS: Global Presence – Local Expertise

DQS is one of the leading certification bodies for management systems worldwide. With 80 offices in 60 countries, and 2,500 auditors and experts worldwide, DQS is your trusted partner for sustainable success. DQS Holding, based in Frankfurt, provides the strategic leadership for all DQS offices worldwide. We strive for one common goal: to improve our customers' management systems and organizational health by offering value-adding assessment services.

The way to us

Please contact the local DQS office in your area.
The list is available online at the Group website