Energy Management

For a better tomorrow, save energy today.

Information Pack

Version: 1.0

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WHY CHOOSE **ISO SYSTEMS UK**?

Guaranteed **ISO 50001** Certification with ISO Systems UK

Billy Naisbett
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QHSE LA | IRCA | CQI

Scott Naisbett
Certified Lead Implementer
IBITG | GASQ | IRCA | CQI

Having led the implementation of the ISO Standards across a multitude of industries and sectors, we've helped all businesses irrelevant of type and size achieve the ISO Standards of their choice with the minimum of time, cost and fuss.

" *ISO Systems UK took my understanding of business improvement and business process engineering to the next level. An excellent coach and mentor, many of the techniques shown to me by them I use today.*

Mark Burgess, National Project Manager

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Alan Trueman, Associate

" *ISO Systems UK have a very positive and practical approach to developing and implementing management systems that lends itself to getting buy in from their colleagues at all levels.*

Mark Appleyard, Development Director

Prepare for Certification

Drawing on our practical ISO standards know-how and proven management system consultancy expertise, we can help you implement an ISO 50001-compliant ISMS with ease. We provide a 100% guarantee of successful certification when you engage our consultancy team. Your journey to success starts with us. Get in touch today for your obligation-free, tailored quote.

INTRODUCTION TO **ISO 50001**

Lowers your energy consumption, your energy bills and your environmental footprint

Used by organisations across the world to manage and reduce energy use and costs, ISO 50001 is an excellent framework to help implement an energy management system (EnMS). From large retailers to smaller manufacturers and small businesses, the standard offers organizations the opportunity to become more resilient against energy costs and availability. Whether you're interested in certifying to ISO 50001 to reduce costs, comply with legislation or increase your sustainability, implementing the standard provides a systematic approach to achieving all three.

Reduce Costs

Comply with Legislation

Increase your Sustainability

> Sheffield Hallam University has achieved many of the big-win energy savings needed to improve its processes. The framework of ISO 50001 has provided us with a tool to deliver this which allows us to maximize potential opportunities and implement changes to operations and behaviours.

Gillian Wright,
Energy Carbon Manager,
Sheffield Hallam University
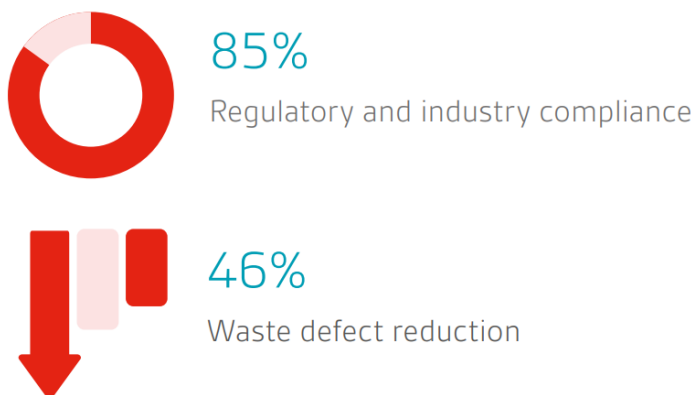
THE **BENEFITS**

How **ISO 50001** works and what it delivers for you and your company

ISO 50001 is a sustainable business tool that helps organisations implement a flexible and robust energy management system (EnMS). Effective energy management isn't just good for business, it's also becoming a requirement. ISO 50001 will help your organization understand how you're using various types of energy and identify realistic ways of reducing consumption, emissions and costs.
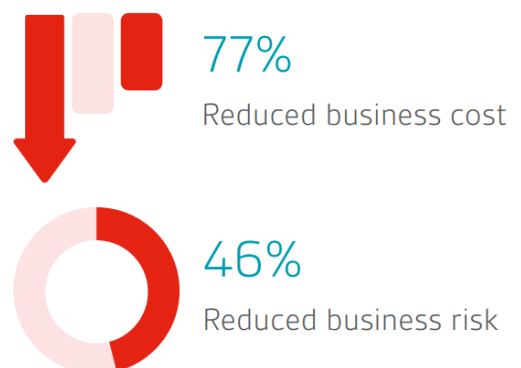
The international standard outlines energy management practices that not only save your organization money today, but also in the long term; all while helping shield your bottom line from the increasing cost of energy. ISO 50001 also shows your commitment to reducing environmental impact which can help you stand out from your competition and earn new business.

Benefits of ISO 50001

Environmental improvements

85%
Regulatory and industry compliance

46%
Waste defect reduction

Business improvements

77%
Reduced business cost

46%
Reduced business risk

HOW ISO 50001 WORKS

Released in 2011, and containing 4 key clauses, ISO 50001 is based on the management system model of continual improvement. The standard provides a framework of requirements for organisations to:

• Develop a policy for more efficient use of energy
• Fix targets and objectives to meet the policy
• Use data to better understand and make decisions about energy use
• Measure the results
• Review how well the energy policy is working

The Plan-Do-Check-Act (PDCA) cycle is the operating principle of ISO management standards. By following this cycle, you can effectively manage—and continually improve—your organisation's effectiveness.

1. plan   2. do   3. check   4. act
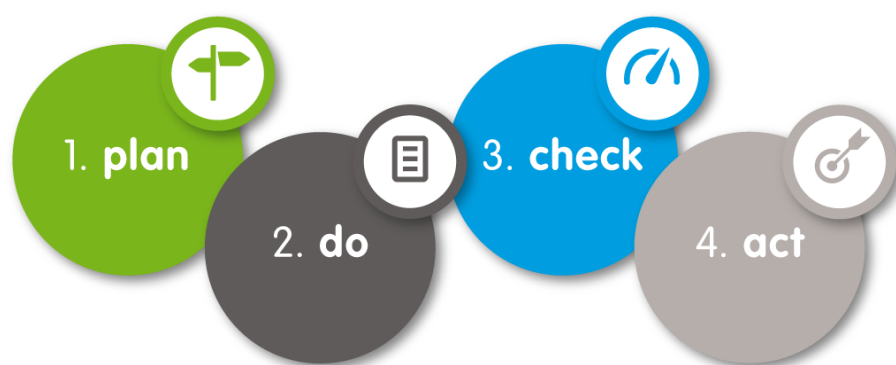
Some of the core concepts of ISO 50001 are:

Concept	Comment
Management responsibility	The actions that top management must take in order to support the successful implementation and maintenance of an EnMS
Energy review	The analysis of energy use and consumption and the following identification of opportunities for improving energy performance
Energy baseline	The readings of energy consumption over a defined period of time that will be used to measure the performance of an EnMS against
Performance indicators	Measures that will be used to evaluate how successfully the EnMS is operating
Communication	Specific guidance on what needs to be communicated to whom as an EnMS is being planned, implemented, maintained or improved
Documentation	Required written details of the EnMS and supporting information such as energy consumption bills
Non-conformity and corrective action	Non-conformities are identified via the audit process as the non-fulfilment of a requirement of the standard, corrective actions are what the actions an organization must take in order to fulfil the requirement
Management review	The process by which management evaluates the progress and achievements of the EnMS

KEY REQUIREMENTS OF ISO 50001

Clause 4.2: Management Responsibility

This clause clearly lays out the need for top management to commit to supporting the energy management system. This means that high-level representatives of the organisation have to support the definition, establishment, implementation and maintenance of an energy policy. Key commitments include conducting management reviews, making sure that the necessary human, technology and financial resources are available and ensuring that energy objectives and targets are established.

Clause 4.3: Energy Policy

An organization's energy policy will confirm its commitment to improving energy performance. The policy must reflect the size and nature of the business, commit to continual improvement and compliance with any legal requirements. It will also establish a process for setting and reviewing energy objectives and targets, support energy-efficient product purchases and how and when the policy is reviewed and updated.

Clause 4.4: Energy Planning

This clause focuses on how a business organises itself to address its energy use. It requires information gathering around the organisation's activities that can affect energy as well as what, if any, legal requirements the organisation must meet. The organisation must also develop an energy review that analyses energy use and consumption to gain an understanding of where in the business energy consumption is highest. Using this data, improvement opportunities must be identified and prioritised. How the improvements will be measured also has to be decided. Establishing an energy baseline is also required to understand how much energy is being used before the energy management system is put in place. Finally, in line with the energy policy, energy objectives and targets need to be established, implemented and documented along with action plans detailing how they will be achieved.
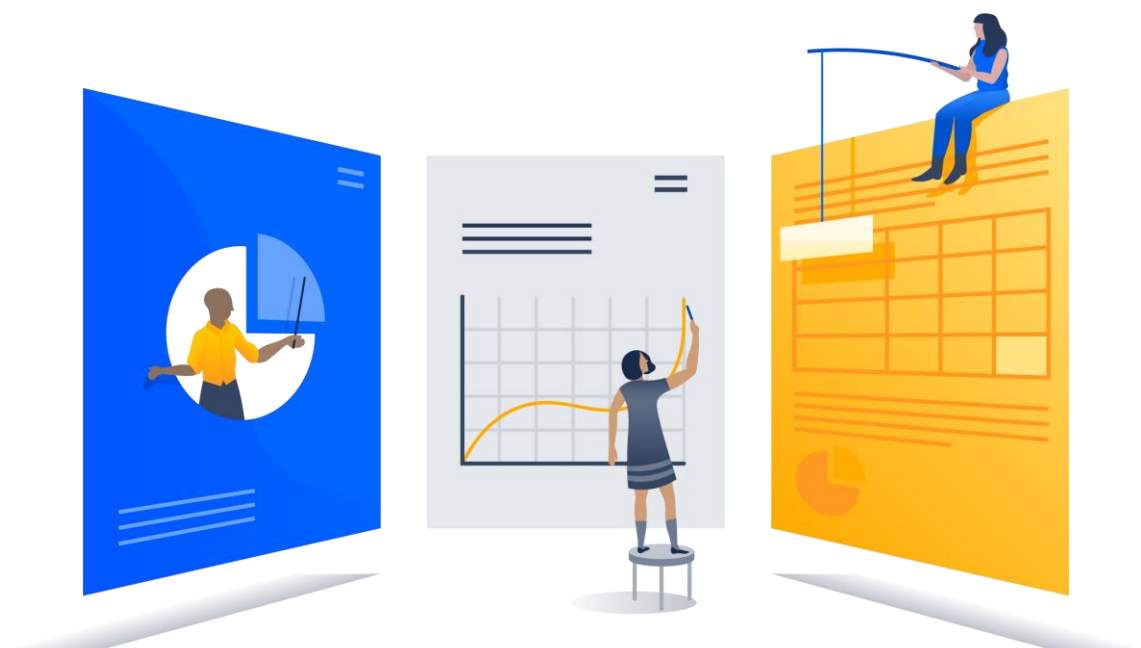
Clause 4.5: Implementation and Operation

In order to make sure that the EnMS is successfully implemented and maintained, ISO 50001 states that all workers who are involved with the EnMS must be competent and properly trained according to their role. Your organisation should carefully review the capabilities of the employees who will be working with the energy management system and determine if training or additional hiring is required. There must also be a system in place that supports the communication of information about the system to impacted workers as well a way for workers to provide feedback, concerns or suggestions.

Documenting the EnMS is also very important. There must be a clear description of the system, its scope, boundaries, energy policy and objectives. The same must be done for all of the associated action plans, documents and records. To ensure that it continues to be relevant your organisation will also have to develop a process for maintenance, regular review and updating of the documentation. The establishment and maintenance of operational procedures and controls, as required by the standard, helps organisations ensure they're controlling significant energy use and adhering to the policies, objectives and targets established in the energy plan.

The design requirement in the Implementation and Operation section of the standard requires that all new, modified or renovated facilities, equipment, systems and processes that an organisation builds or implements that have a significant impact on energy use must undergo an energy performance evaluation and that the resulting findings be incorporated into the new project. It is also a requirement that when purchasing or procuring energy services or products that consume energy, organisations have criteria for measuring energy use, consumption and efficiency over the product/service's lifetime and that potential suppliers are made aware that purchasing decisions will be partly determined by these criteria.

Clause 4.6: Checking

This is all about measuring and evaluating your EnMS to ensure that it's effective. You will need to consider what should be measured, how it will be measured and how and when the data will be analysed and reported on. Internal audits will need to be carried out so that you can make sure that the EnMS is in line with ISO 50001 and is meeting the established objectives and targets. You will then have to address any nonconformities by taking corrective and preventative actions.

Clause 4.7: Management Review

According to a set schedule, the top management of your organization will have to review the EnMS. This is done so that it continues to be suitable, adequate and effective. Highlights include a review of the energy policy, the organization's energy performance, legal compliance and any changes that have occurred to laws and regulations set by government, industry or other bodies, the status of corrective and preventative actions as well as recommendations for improvement. Typically, the results of the Management Review will include things like changes to the energy policy, energy performance indicators and/or the EnMS's objectives and targets.

TOP TIPS ON MAKING ISO 50001 EFFECTIVE FOR YOU

Top management commitment is key to making this a success.

Keep staff informed of what's going on, create a team or assign a champion, as this will increase motivation. This could include a well communicated plan of activities and timescales.

Think about how different departments work together to avoid silos. Make sure the organisation works as a team for the benefit of customers and the organisation.

Review systems, policies, procedures and processes you have in place – you may already do much of what's in the standard and make it work for your business.

Speak to your customers and suppliers. They may be able to suggest improvements and give feedback on your service.

Carry out internal audits. This is key to continually improve on your energy performance and also provides valuable feedback on potential problems or opportunities for improvement.

And finally, when you gain certification celebrate your achievement and use it for your literature, website and promotional material.

WHY ISO SYSTEMS UK?

When it comes to helping companies achieve internationally recognised certification to the ISO Standards, you're in safe hands.

ISO Systems UK is a well-established business with an unblemished reputation. Our ethos is to allow all businesses, irrelevant of type, size and profit margin, to have an equal opportunity in trading with the larger organisations who have the financial resource to employ specialist departments with quality and environmental managers and teams.

In 2017, we celebrated our 10th anniversary of helping businesses successfully achieve ISO Certifications.

ISO Systems UK is a business with a professional yet personal touch, we do not send in teams of salesmen, followed by an array of faceless consultants, and we do not offer generic 'off the shelf' systems that are of limited value to any business.

We do offer you a dedicated highly trained and friendly specialist who will work with you from day one to achieve the standard and recognition that your business requires and continue to work with you throughout the entire project including representing you during the external certification audits.

As Trusted By

HERITAGE HEALTHCARE
expert care at home

STILLER

CAM-TEC SYSTEMS LTD

Clipper

Hutton Fire Protection

Agility

BignallGroup
Passionate from Concept to Customer.

A1 Engineering Solutions Limited

Intelligent Management Systems

Competent Health & Safety Service

The Learning Hub

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Get in Touch

It is the policy of ISO Systems UK to provide our clients with the most competitive, flexible, responsive and qualified service possible.

But we know that no person can be an expert in all elements of every available standard, tool, technique and methodology.

If we don't specialise, we won't advertise, but if our client wants it, we will use a close team of specialist professionals to assist where it is not our standard project type to fulfil the exact requirements and the needs of our clients.

Please feel free to contact us with any questions that you may have, we will be pleased to assist - professional, friendly advice does not have to cost!

ISO 27001 | ISO 9001
ISO 14001
ISO 50001 | ISO 22301 | ISO 45001

ISO SYSTEMS UK

Intelligent Management Systems

Practical • **Simple** • **Flexible**

Intelligent Management Systems

Competent Health & Safety Service

The Learning Hub