

How an energy management system can benefit your business

Introduction to energy management

Hikes in energy prices, a tough recovery period following the pandemic and the need to fight climate change are all making us think twice about how we use energy.

By simply improving energy management, businesses of all sizes can take control of their energy consumption, waste less valuable resources and – most importantly – start seeing significant reductions in their energy bills.

An energy management system (EnMS) is the best way to put energy efficiency at the heart of your organization.

“ Small businesses could reduce their energy bills by 18-25% by installing energy efficiency measures.”

[DECC](#)

What is an EnMS?

An EnMS is a structured approach to energy management that helps you understand your organization's energy needs. You can then develop and implement a strategy to improve energy performance, reduce emissions and lower your energy bills.

An EnMS can save you time and money by ensuring that your energy-saving efforts are focussed on measures that will have a real, positive impact.

Following the 'Plan, Do, Check and Act' model, an EnMS is a systematic way to assess how your business uses energy, identify areas that need work and then make continuous improvements to keep saving money, saving energy and ensuring your business is the best it can be.



The benefits of an energy management system

Whether you're looking to save money on your energy bills, reduce your organization's carbon footprint, or both, an EnMS provides the best route to success. And the benefits don't end there:

- **Bottom line:** Reduce your energy bills and increase profitability.
- **Improve your cashflow**
- **Reinvestment:** Reinvest cost savings into training programmes, technology, talent, product innovation or whatever makes sense for your business.
- **Emissions:** Lower your carbon emissions.
- **Resilience:** Reduce your organization's vulnerability to future energy price hikes and get ready for new regulatory controls.
- **Pollution and climate:** Contribute to improved air quality and climate goals.
- **New business:** Open the door to more lucrative tender opportunities, especially on publicly-funded projects which are likely to have strict procurement controls.
- **Reputation:** Improve your organization's green credentials and boost your reputation to win new clients and attract and retain staff members.
- **Productivity:** Take control of your processes and systems, improving productivity and stability.
- **Compliance:** Meet mandatory requirements of the EU Energy Efficiency Directive (EED), such as the UK government's Energy Savings Opportunity Scheme (ESOS).
- **New business:** Open the door to more lucrative tender opportunities, especially on publicly-funded projects which are likely to have strict procurement controls.
- **Reputation:** Improve your organization's green credentials and boost your reputation to win new clients and attract and retain staff members.
- **Productivity:** Take control of your processes and systems, improving productivity and stability.
- **Compliance:** Meet mandatory requirements of the EU Energy Efficiency Directive (EED), such as the UK government's Energy Savings Opportunity Scheme (ESOS).

Energy management systems in action



Sheffield Hallam University saved **£10,000 a month**



Morgan Lovell **reduced energy usage by 30%**



Costain achieved a **46% reduction in carbon emissions**

[BSI](#)



Costs vs savings of an EnMS

As your organization begins taking steps towards better energy management, many of the initial 'quick wins' can deliver impressive results with little upfront investment. In fact, simple things like turning down thermostats, maximizing natural light, controlling airflow and switching off unused appliances won't cost you anything at all.



Investment	Saving	Action
£0	14%	Heating costs ¹ go up by about 8% for every 1°C increase. Turning thermostats down by just 2°C would save you £140 on a £1,000 bill.
£0	£596 and 3.5 tonnes CO ₂ e / year	One engineering firm ² is saving £596 and 3.5 tonnes of CO ₂ e annually through a simple 'switch off' awareness campaign that encourages staff to turn off unused computers.
£100	£4,363 and 17.6 tonnes CO ₂ e / year	The Chinese Contemporary Arts Centre ³ saved £4,363 and 17.6 tonnes of CO ₂ e per year simply by installing a timer to optimize when its heating was active. The timer cost £100 in total to install.
£225	£813 and 5 tonnes of CO ₂ e / year	Installing sensors in storerooms and toilets, one manufacturer ⁴ saved £813 and 5 tonnes of CO ₂ e every year. The measure paid for itself in just 3 months.
approx. £1,500	£1,533 and 10 tonnes CO ₂ e / year	A medium-sized hotel ⁵ was able to reduce energy bills, carbon emissions and maintenance demands by upgrading lights in communal areas to a more efficient LED system.
approx. £8,000	£1,796 and 13.5 tonnes CO ₂ e / year	Through use of a building management system, a housing trust ⁶ saved 30% on energy bills and 13 tonnes of carbon emissions annually, recouping on its investment in less than 4.5 years.

¹ Carbon Trust

²⁻⁶ DECC

Better energy management with standards

To develop and implement an EnMS for your business, there are specific standards that can help you improve your energy management.

ISO 50005, for example, is an energy management standard designed to help small businesses implement and quickly reap the rewards of an EnMS, while ISO 50001 is a more comprehensive, long-term approach to energy management.

Standards draw on knowledge and experience from a wide range of sources – including industry, government, consumers, academics, environmental organizations and charities – to provide a best practice approach for achieving your objectives.



Get your free copy of ISO 50005 now

Small- and medium-sized businesses can get a copy of ISO 50005 completely free, so you can start working towards better energy management right away.

[Download now](#)



Better energy management with standards

ISO 50005: Guidelines for phased implementation of an EnMS

[ISO 50005](#) simplifies the implementation of an EnMS, breaking the process down into 12 manageable steps. This is particularly useful for small to medium-sized businesses (SMEs) that have fewer resources to dedicate to energy management and prefer to enjoy 'quick wins' that can reduce their energy bills without significant investment.

[Download](#) your free copy now to start your journey towards better energy management.



ISO 50001: The energy management standard

Regardless of the size, nature, or energy needs of your business, the revised [ISO 50001](#) energy management standard will help you understand and measure your energy usage, and then plan and implement an EnMS, to continually improve your energy performance.

This standard provides a globally-recognized best practice approach to energy management, helping you to establish policies, processes, tasks and controls so you can meet your energy objectives. Full certification to the standard through BSI or another UKAS accredited certification body will help to show your organization's commitment to energy management and can also help you comply with energy management regulations.

Find out more about ISO 50001 on [BSI Knowledge](#).

Energy management system solution pack: Energy-saving standards for any business

The EnMS solution pack has been specifically curated to include the standards required to support organizations to kickstart their reduction in energy usage, without the need for hiring expensive consultants.

It gives you access to all the standards you need - in one place - and offers a more comprehensive approach to developing and implementing an EnMS.

To find out more about the solution pack, visit [BSI Knowledge](#).

Start your standards journey

To find out more about how an EnMS could benefit your business, and how standards can help you get started with energy management, visit [BSI Knowledge](#) or contact the BSI team today.