

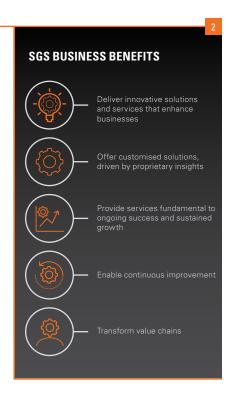
HOW CAN YOU REDUCE ENERGY COSTS?

ENHANCE ENERGY MANAGEMENT WITH ISO 50001:2018

BE THE BENCHMARK



Organisations today are met with a variety of operational and business challenges. External forces, like competitors and regulatory bodies, also add a secondary level of pressures that must be anticipated. Additionally, both B2B and B2C firms are experiencing a large influx of customer data, across multiple touchpoints. The dividing factor between those who are successful and those who are not, is how they analyse and use that data for business enhancement. At SGS, we have developed a variety of solutions to not only meet these needs, but establish more efficient and profitable ways of working. Using our 140 years of experience and operational data set, we partner with clients to gain intelligent insights into their current business functions while simultaneously strategising for the future. To meet the needs of our current customers and provide effective and modern solutions to current and future business issues, we offer three pillars of insights driven, customisable products and solutions.



CERTIFICATION **INTELLIGENCE ACTIVATION** A complete set of digital tools and solutions used to Our wide-ranging portfolio of industry improve business efficiency specific ISOs and regulatory standards ISO Standards Second Party Audits BE Engine Regulatory Standards Intelligent Assessments SGS Academy Industry Standards **iPLUS** Hospitality Experience Customised Assessment Tracking System Facility Security Evaluation

THE BUSINESS ENHANCEMENT PLATFORM

For decades, SGS has been known as the global leader in certification, working with clients in virtually any sector. This deep and broad experience in quality control management, regulatory compliance, and training has resulted in a staggering array of data points across industries. Utilising this data set, we have evolved our service offerings to include business enhancement - the process of transformation that improves or increases the value of an organisation's people, processes, product or service. Our business enhancement solutions offer the most up-to-date, practical insights to help you achieve your goals and ultimately BE the benchmark.



Technical Consulting

ISO 50001:2018 ENERGY MANAGEMENT SYSTEM

ISO 50001:2018, Energy Management System (EnMS) – requirements with guidance for use, specifies requirements for establishing, implementing, maintaining and improving an energy management system. The aim is to enable an organisation to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, use and consumption.

Broad implementation of the ISO 50001:2018 standard across the commercial and industrial sectors could achieve significant energy savings for individual organisations, while driving progress towards meeting climate actions globally.

ENMS QUICK FACTS

Earth's temperature in 2017 ranked as the 2nd warmest since 1880, caused an increase in extreme climate events such as:



Heat waves



Droughts



Sea ice coverage depletion



Blizzards



Cyclones



Increase in ocean acidity



Heavy rainfall



Rise in sea levels



Increase in concentration of atmospheric CO₂

CHANGES OVERVIEW FROM ISO 50001:2011 TO ISO 50001:2018

ISO/TC 301 Energy management and energy savings Technical Committee indicated the main changes compared to the previous edition include:

Adoption of the Annex SL Appendix 2, High Level Structure (HLS) text

Better energy understanding/further opportunities identification

Energy data collection plan and related requirements (previously energy measurement plan)

Identification of risks and opportunities

Actions to address risks and opportunities

Energy review has been clarified

Strategic energy management

Leadership

Risk-based thinking

EnPI and EnB text

Documentation

ISO 50001:2018 DEVELOPMENT PROCESS TIMELINE

THE BENEFITS OF ISO 50001:2018

ISO 50001:2018 transforms the way organisations manage energy, offering a systematic approach with sustaining results. The standard has value both as a best practice model for strategic management of energy and as a global benchmark for climate and clean energy action.

ISO 50001:2018 is:



Business-friendly: Impressive savings based on a proven management framework;



Globally relevant: Developed by over 50 countries; many of whom have implemented supporting policies and programmes;



Transformational: Embeds best practices into any organisation, allowing efficiency and productivity gains to endure and grow.

According to ISO, available evidence shows that organisations adopting the ISO 50001:2018 standard benefit from initial energy improvements of 10% or more and achieve net cost savings, mostly through low cost or no cost changes to operations.



HIGH LEVEL STRUCTURE (ANNEX SL)

Annex SL is now the required framework for all new and revised ISO Management Systems Standards. The clause structure specified in Annex SL are below:

- Scope
 - Normative references
- Terms and definitions
- Context of the organisation
- Leadership
- Planning
- Support
- Operation
- Performance evaluation
- Improvement

ISO 50001:2018 PDCA FRAMEWORK

Energy management is based on the Plan Do Check Act (PDCA) continual improvement framework and incorporates energy management into existing organisational practices as the figure shows. The PDCA approach can be outlined as follows:



Understand the context of the organisation, establish an energy policy, an energy management team, consider actions to address risks and opportunities, conduct the energy review, identify significant energy uses (SEUs) and establish the energy performance indicators (EnPIs), energy baseline(s) (EnBs), objectives and energy targets, and action plans necessary to deliver results that will improve energy performance in accordance with the organisation's energy policy.



Implement the action plans, operational and maintenance controls, and communication, ensure competence and consider energy performance in design and procurement.



CHECK

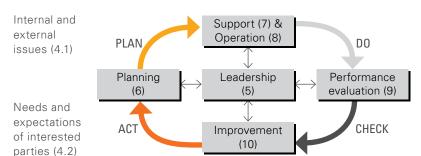
Monitor, measure, analyse, evaluate, audit and conduct management review(s) of energy performance and the EnMS.



Take actions to address nonconformities and continually improve energy

performance and the EnMS.

CONTEXT OF THE ORGANISATION (4)



Intended outcomes of the EnMS

PLANNING

Energy planning provides the foundation for developing an EnMS that is based on an understanding of an organisation's energy performance. This is the step where the organisation's analysis of its energy data, along with other energy information is used to make informed decisions on actions to continually improve energy performance.

Planning is:

- Review of the organisation's activities and processes that can affect energy performance.
- Consistent with the energy policy and that leads to continual improvement of energy performance.

This figure provides a conceptual diagram to improve understanding of the energy planning process, including both strategic and tactical approaches.

- Strategic approach needs to identify the risks and opportunities. Input information includes internal and external issues and the needs and expectations of interested parties.
- Tactical approach is conducting energy review majorly.
 The input information are energy data.

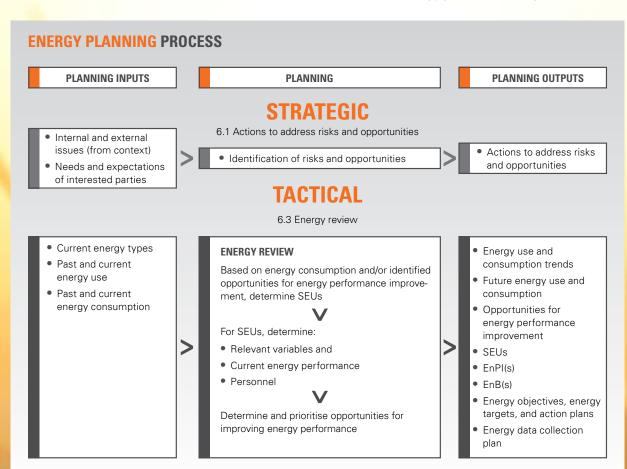
STRATEGIC ENERGY MANAGEMENT

There is a new requirement (cl. 4.1) to understand the context of the organisation, determining external and internal issues relevant to achieve the intended outcome(s) of its EnMS and to improve its energy performance.

When determining organisational context, the organisation shall consider their activities and processes that can affect energy performance.

Particular focus now on the needs and expectations of interested parties that can affect, or be affected by, the organisation. In this context the organisation shall identify and determine actions to address risk associated with threats and opportunities, in addition to significant energy use and compliance obligations.

Most importantly, by embedding strategic energy management as an integral business practice, companies ensure that energy efficiency opportunities are continually realised and energy gains endure and grow over time.



ACTIONS TO ADDRESS RISKS AND OPPORTUNITIES

DETERMINE THE RISKS AND OPPORTUNITIES THAT NEED TO BE ADDRESSED TO:

Achieve its intended outcomes(s), including energy performance improvement

Prevent/reduce undesired effects

Achieve continual improvement

CONSIDER THE ISSUES REFERRED TO:

Internal and external issues

Needs and expectations of interested parties

The organisation's activities and processes that can affect energy performance

AN ORGANISATION SHALL PLAN:

Actions to address the identified risks and opportunities

How to integrate and implement the actions into its processes and evaluate the effectiveness of these actions

NEXT STEPS DOWNLOAD OUR ISO 50001 WHITEPAPER WATCH OUR RECORDED **CONTACT US AT**

COCA-COLA BOTTLING EGYPT (CCBE) CASE STUDY



ABOUT COCA-COLA BOTTLING EGYPT (CCBE)

CCBE is the largest soft drinks bottler in the Middle East Region. CCBE focuses their effort on protecting and preserving the planet, which requires attention to areas such as water, energy use, packaging and emissions. As part of the Coca-Cola Company's commitment to sustainability, it encourages its bottling partners to do the same. Therefore all of CCBE's new machinery and equipment is environmentally friendly.



WHY AN ENERGY MANAGEMENT **SYSTEM CERTIFICATION?**

to stakeholders its ongoing against ISO 50001.



BENEFITS OF CERTIFICATION

The systematic approach to energy saving that ISO 50001 brings helped CCBE focus on the benefits that continual energy savings can offer. After implementing ISO 50001, CCBE now has several initiatives in place programme for energy performance,

CONTACT SGS

To speak to an SGS expert about initiating your ISO 50001:2018 certification journey, contact us today.





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