

This combination instruction / checklist is intended for use in upgrading your Management System for the transition from ISO 50001:2011 to ISO 50001:2018 for Energy management systems (EnMS) used in all types of industries. The above management systems are compatible with each other and have common requirements.

In ISO 50001:2018, the requirements are described in:

- Clause 4 Context of the organization
- Clause 5 Leadership
- Clause 6 Planning
- Clause 7 Support
- Clause 8 Operation
- Clause 9 Performance evaluation
- Clause 10 Improvement

Previously in ISO 50001:2011, the requirements were described in:

- Clause 4.1 General requirements
- Clause 4.2 Management responsibility
- Clause 4.3 Energy policy
- Clause 4.4 Energy planning
- Clause 4.5 Implementation and operation
- Clause 4.6 Checking
- Clause 4.7 Management p

You have the ISO 50001:2011 version in place and now have the objective of upgrading the system to the ISO 50001:2018 version. The good news is that since you are familiar with formal management systems, this initiative will be readively straightforward.

Essentially, the documentation package for the management system will contain:

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- One condensed Manual to introduce the documented information required for ISO 50001:2018.
- A group of procedure/system documents for your EnMS with updates to reflect a document numbering system related to the new clause numbers and to incorporate the upgrades for ISO 50001:2018 requirements,
- A group of forms and attachments needed for the documented information and systems.

The documentation will need to be reviewed, upgraded, and implemented. The first step is to assign a person responsible for the management system, such as with an Energy Management Team Leader to become familiar with the changes for the 2018 version of the ISO 50001:2018 standard. Visit https://submatrix150001store.com/ for training materials, resources, and information on energy management systems requirements.

The following table with detailed instructions focuses on the areas of the documentation required for the new standard. As you undertake the task of upgrading your energy management system, note that in the left-hand column of the instructions, the ISO 50001:2018 clauses shown in **bold numbers** have key changes from 2011 to 2018. The intent of the main clauses is shown in **blue font** and the text in *italics* indicates where requirements were included in previous ISO 50001:2011.

Use a copy of the ISO 50001:2018 standard along with this instruction to pinpoint for your organization the areas that need attention. You may want to make notes and add comments in the space available to the right and the left of the column for reference documentation. Use the upgrade checklist section on the right side of the table to assign the responsibility for the upgrade and to follow up on its completion.

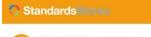


ISO	Changes to the existing ISO	Reference	Changes in existing documentation	Upgrade	Checklist	
50001:2018 Clause	50001:2011 Energy System	document	· · · · · · · · · · · · · · · · · · ·	Assigned to:	Date Completed	
All	The international standard ISO 50001:2018 is restructured and contains 10 sections or clauses 1 through 10.	ISO 50001:2018	The requirement clauses of the new standard are the Clause 4 through Clause 10. Your company needs to become familiar with the new structure and the changes and subsequently upgrade the Energy Management System (EnMS).			
All	As you initiate the transition from ISO 50001:2011 to ISO 50001:2018, here are a few Short, Quick, and To-the-Point Productivity Tips. 50001 Store	an	 An important first tip is to assign a responsible person, such as an Energy Management Team Leader as the representative of the top management, who will be the project manager for the transition project. You will need to refer to the ISO 50001:2018 standed. Buy the new standard at https://s000/stole.com/standards For the transition from the 2011 version to the 2 18 version, keep your employees informed by iss ting 'Employee Newsletters'. Refer to http://50001store.com/?s=newsletters for a complete set of newsletters. Make use of the 'Implementation Plan'. Refer to https://50001store.com/?s=step+by+step. Get your free Quick Start Kit at https://50001store.com/?s=quick+start As required in clause 9.2 of the standard, your EnMS will need to be audited and your internal auditors properly trained to do this. For a complete auditor training package, refer to https://50001store.com/?s=internal+audit 			





All	While the specific requirement for a Manual is not in ISO 50001:2018, the standard requires that documented Information be maintained for the EnMS	Manual	Replace / rework your existing Energy Manual with a condensed version that will introduce the energy management system. You may want to assign the Manual a document number such as EnMS-002.		
	In ISO 50001:2011, a Manual was not a requirement.	Manual	 In the EnMS-002 Manual include sections for: Scope of the Energy Management System Distribution Control List, Revision Status, Energy Policy, Objectives, Energy Targets, Strategic Direction, Organization Chart, Company Background, Process Flow Diagram, List of Documented Information, Records Documentation Matrix. 		
	The specific requirement for documented procedures is not in ISO 50001:2018; however documented information is required to plan, establish, implement, and maintain the EnMS processes. In ISO 50001:2011, the requirement for control of documents was included in clause 4.5.4, and the requirement for control of records was in clause 4.6.5.	Documented information	The documented information may be presented in any suitable format such as in a method, an instruction a system of process, a procedure, etc. In u will need to add / replace / rework your proceeders to incorporate the ISO 50001:2018 requirements. An early consideration is the development of a process for the control of documented information. Replace / rework the documented procedures for Control of Documents and Control of Records with a procedure, P-750 for Documented Information and include it in section 7.5.		
4	2 nd is understanding the needs and expecta	tions of interest anagement Sys	context of the organization, 1 st of all is understanding the ed parties. Together they require that you determine the tem. In addition, the scope of the EnMS, and the processed to be determined.	issues and requir	ements that
4	Clause 4, Context of the Organization is a new requirement in ISO 50001:2018. In ISO 50001:2011,Clause 4 covered the	Documented information	Your company will have to determine the issues and requirements that can impact on the planning of the EnMS and that can affect the ability to achieve the		



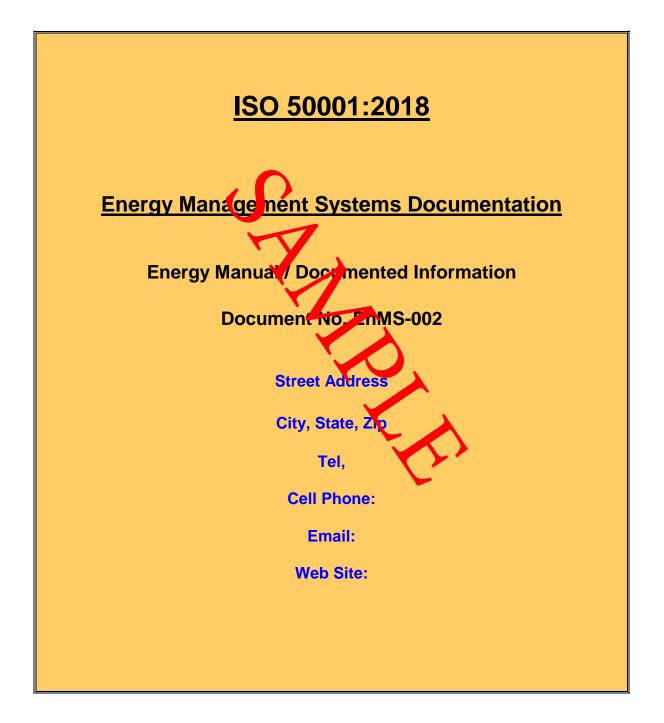


	$150\ 5000\ 1.20\ 10\ 11\ 150\ 5000\ 1.20\ 11\ =\ Enwis\ Opyrade\ instructions$				
	Energy management system requirements.		intended results of the system and improve energy performance.		
4.1	Documented information for the EnMS sets the stage for an understanding of the requirements and of the international standard as a whole.	Procedure	Document the information (in a document/procedure P-400, Organizational Context) to outline the process to understand and determine the internal and external issues that are relevant to the EnMS.		
4.2	A stakeholder approach provides for an understanding of the requirements of the company personnel and other interested parties.		In P-400, include the process to determine the interested parties relevant to energy performance and to understand and determine their requirements that need to be addressed through the EnMS.		
	In ISO 50001:2011, the requirements for legal and other requirements were in clause 4.4.2.		In P-400, include the process to ensure that legal and other requirements that apply to the EnMS are accessible and determine how they affect energy use and consumption.		
4.3	In ISO 50001:2018, clause 4.3 requires that the scope of the EnMS be determined. In ISO 50001:2011, the definition and documentation of the scope and boundaries of the EnMS were in clauses 4.1 b and 4.2.1 d.		In P-400, include the process to determine the scope of the EnMS. Consider the requirements in above clauses 4.1 & 4.2, and the energy-using processes and activities performed. Include inclus ErMS your activities and processes that you control or innuence and that can impact energy performance.		
4.4	In ISO 50001:2018, the basic requirement for the energy management system and its processes is in clause 4.4. <i>In ISO 50001:2011, general requirements</i> <i>for the EnMS are in clause 4.1</i>	521	Your company will have to establish, implement, maintain, and continually improve the EnMS in accordance with the requirements documented in the ISO 50001:2018 standard. Provide an outline (in a document P-400) of the process to determine the application and interaction of the processes needed for the EnMS.		
5	section also asks top management to estab	lish, implement	es leadership and commitment with respect to the Energ and maintain an energy policy that is appropriate to your vant roles are assigned, communicated, and understood	company and to	ystem. This ensure that the
5	In ISO 50001:2018, clause 5, Leadership replaces clause 4.2, Management	Procedure	Review and re-write your existing document P-500 to incorporate the revised energy related requirements		





	responsibility in ISO 50001:2011.	for leadership and commitment.
5.1	This clause covers overall responsibility and authority, and the formation of an energy management team is included in clause 5.1 f) of ISO 50001:2018. In ISO 50001:2011, the requirement for a management representative was included in 4.2.2 and the formation of an energy management team was not a specific requirement.	To demonstrate leadership and commitment, assign responsibilities and authorities to ensure that the EnMS conforms to the requirements of the ISO standard. Include the formation of an energy management team, and you may choose to announce an Energy management team leader as the ISO 50001 implementation project manager. Refer to the requirements in clause 5.1 a) thru m) and include the items ranging from a) ensuring that the scope and boundaries for the EnMS are established to m) ensuring that a system is in place to identify and address changes affecting the EnMS.
5.2	In ISO 50001:2018, clause 5.2 covers the requirements for the Energy policy. In ISO 50001:2011, the Energy policy was included in clause 4.3.	Include the process for developing and communicating the Energy policy. Refer to the requirements in clause 5.2 a) thru g) and include the items ranging from a) policy is appropriate to the purpose of the company to g) policy supports design activities that include improved energy performance. Ensure that the energy policy is available as document d intermetion, is communicated within your company, s available to interested parties, and is reviewed heriodically and updated if needed.
5.3	In ISO 50001:2018, Organizational roles, responsibilities and authorities are outlined in clause 5.3. In ISO 50001:2011, clause 4.2.1 covered the requirement for top management and the requirements for responsibility and authority were in clause 4.4.2 and through a management representative.	ation art Include the system for assigning and communicating the responsibilities and authorities. Refer to the requirements for a) thru e) to ensure that a) the EnMS is established, maintained and continually improved to e) establishing criteria and methods needed for the effective operation and control of the EnMS.
6	clause 4.1, the requirements of clause 4.2, the scop and opportunities. The planning of actions includes	nanagement system, where your company needs to consider the issues referred to in previou e of the EnMS system per clause 4.3, and determine the actions to address the energy risks systems for the identification and planning of objectives and energy targets. In addition, energy indicators (EnPIs) determined, energy baselines (EnBs) established, and the collection of



Energy Manual

Instructions:

This manual is used as a template in developing your ISO 50001:2018 Energy Management Systems.

- Methods and systems used in the development and operation of the EnMS vary widely from company to company.
- The blue text and suggestions displayed in the manual are intended to offer some options and to highlight the areas that need attention / update / replacement.
- Review the text and suggestions and at a minimum replace or update them to reflect the unique / customized information of your energy system requirements.
- Delete the blue text after each ask is completed.
- Use replace function enter "Your Company" in find space, enter your company name in replace space statem hould make changes throughout the entire document.
- Additional details and instructions in the use of the EnMS-002 manual template is included in a separate file "EnMS-Tranplate-Instructions".

Additional documentation review.

• Similarly, the blue text and suggestions dispayed in the EnMS documentation (that will follow) for the procedures, instructions, attachments, forms, and flow diagrams are intended to offer some options and to highlight the areas that require update or replacement.



2

Energy Manual

Table of Contents – (this page)

Introduction

- Section A a. Scope of the Energy Management System
- Section B References
 - a. Normative reference
 - b. Terms and Definitions

Energy Management System Requirements

- Section C Documented Information
 - a. Distribution Control List
 - b. Revision Status
 - c. Energy Policy, Objective, Energy Targets, Strategic Direction
 - d. Organization Chart
 - e. Company Background
 - f. Process Flow Diagram
- Section D List of Documented Information for clauser 4 through 10
 - Clause 4 Context of the Organization
 - Clause 5 Leadership
 - Clause 6 Planning
 - Clause 7 Support
 - Clause 8 Operation
 - Clause 9 Performance Evaluation
 - Clause 10 Improvement
- Section E Records Documentation Matrix

3

P-620-A

Energy Objectives, Targets and Action Plans

1.0 Purpose/Scope

- 1.1 The purpose of this procedure is to describe the process of setting the energy objectives and targets at relevant functions and levels in Your Company.
- 1.2 This procedure provides for the development of the energy programs required to achieve the objectives and targets and outlines the process for developing action plans for the identified energy programs.

2.0 Responsibilities and Authorities

- 2.1 The Energy management team leader has the prime responsibility and approval authority for this procedure.
- 2.2 The Energy management team leader in consultation with the Energy management team is responsible to coordinate activities associated with the implementation and the maintenance of this procedure covering the energy objectives, targets and action pans.
- 2.3 Additional responsibilities for other performed are detailed in relevant paragraphs of section 5.0 below.

3.0 References and Definitions

3.1 This document addresses clause 6. of the ISO 50001:2018 standard, covering objectives and targets.

4.0 Resources

4.1 None

5.0 Instructions

- 5.1 By setting objectives and targets at the relevant functions, levels, processes and facilities, Your Company can focus its efforts and resources on areas of greatest energy impact and/or greatest concern to internal and or external stakeholders.
- 5.2 Objectives and targets are consistent with the energy policy. They are measurable, monitored, communicated and updated as needed.
 - 5.2.1 The objectives and targets become the drivers for the improvement in energy performance and consider legal and other applicable requirements, SEUs-significant energy uses, and energy improvement opportunities identified with the energy review.
 - 5.2.2 The energy objectives planning record, form F-620-001 is used to establish and document the objectives and targets. The form is a multi-section form where:
 - Section 1 is used to restate the company's energy policy (as detailed in attachment A-520-001.
 - Section 2 describes the primary objective(s) consistent with and as outlined in the energy policy.
 - Section 3 describes the general objectives as identified in support of the primary objectives

P-740-A

Communication

1.0 Purpose/Scope

- 1.1 This procedure describes the process for internal and external communication regarding energy management at Your Company
- 1.2 The procedure applies to personnel whose work affects energy performance and the EnMS.

2.0 Responsibilities and Authorities

- 2.1 The Energy management team leader has the prime responsibility and approval authority for this procedure.
- 2.2 Additional responsibilities for the Energy management team leader, the human resources staff, the supervisors, and employees are detailed in relevant paragraphs of section 5.0 below.

3.0 References and Definitions

- 3.1 This document relates to clause .4 of the of the ISO 50001:2018 standard, covering communication.
- 4.0 Resources
- 4.1 None

5.0 Instructions

- 5.1 In support of the procedure P-720 for Competence, awareness, and training the Energy management team determines the method(s) for internal and external communication of energy matters.
 - 5.1.1 The internal communication of dependable information is consistent with that generated with the EnMS and is provided through:
 - Publication of the Energy policy, A-520-014
 - Communication of the Organization chart, A530-01,
 - Overview of the P-D-C-A, plan-do-check-act approach to continual improvement with guidelines, A-600-001.
 - Overview of the Risk-based-thinking approach to improvement with the Risk and opportunities worksheet, form F-610-001.
 - Overview of the process approach and risk-based thinking,
 - Issue and access of the EnMS Manual, Procedures and Instructions as controlled documents, with the procedure P-750,
 - Overview of the procedures & instructions, and the forms & attachments with Master documentation lists, F-750-003,
 - Employee comment / suggestions (per par 5.1.2 below),
 - Daily production schedules/sheets,
 - Crew meetings,

Communication		Page 1 of 3
	Date printed 11/12/18 11:00 e paradites	

F-720-004	Employee Training Summary		
Document #	Document Name:	Rev. Date	Rev ID
Session	ISO 50001:2018 Kickoff Training		
Session	Energy Management System		
Session	New Employee Orientation Training		
EnMS-002	Energy Manual		
A-520-001	Energy Policy		
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F-750-005 Document Change Request

Document Title:		Document Number:
Requestor:	Date Request	ted:
Change Requested: Attach copy of	document page wi	th changes indicated.
	1	
Reason for Change:		<u> </u>
Approver Comments:		
Change Approved: 🏾 Yes 🗌 No	lf yes, is tra Individual [⊐] Group Trai	
7	Fraining Notes:	
Authorized Staff Signature (Principa	al signature(s) need	ded for procedures)
Energy Management Team Leader		Date

Date

F-1010-001 Corrective Action Request - CAR

CA IA (Check appropriate box to indicate Corrective Action or Improvement Action)						
Corrective Actio	Corrective Action # or Improvement Action # Date:					
	Date Due	By/Assigned to	Completed Initials & Date			
Investigation						
Implementation						
Audit						
CAR closed						
		Descript in of Issue				

Investigation Finding / Root Cause			

WI-620-002 Example – ACTION PLAN & PROJECT TIMING CHART - DEVELOPMENT OF ENERGY PROGRAM						
COMMITMENT and POLICY	PLANNING		PROCESS			
Energy Policy Commitment 1	Program Instruction WI-620-002	Conserve Energy	Resources			
Reduce energy use per unit of production by 20% in 5 years in manufacturing operations.	Objective 1	Achieve increased energy awareness for contractors.				
	Target 1	Provide energy awareness training to all contractors – to be completed in 5 months.				
	Energy Program	Energy awarenes	S			
Date started:	Action		s, Technical services and Purchasing et up relevant training programs.			
PROGRAM – ACTION PLAN PROJEC			DER:			
Action Plan is relevant to objectives as defi	ned in the Energy Planning, rec	ord, F-620-001:	Frankriger Ohiostinger			
Primary Objectives:	General Objectives: X		Energy review Objectives:			
Legal and Other Requirements:	Relevant Functions:		Other:			
Other Action Plan Considerations:						
Are there financial requirements associated wi Is funding available? No, X Yes Funds allo	th this objective? No, X Yes T ocated in training budget	Fraining fesources	are required			
Are there business and operational conditions	relevant to this objective? No	, Yes Not appl	licable			
Are the views of interested parties considered?	? No, Yes					
Are there feasible technological options availal	ole for this objective? No,	Yes				
Are there alternative energy sources available	for use for this objective? No	, Yes				
Will operational controls be needed? No, _	Yes	,				
Will an EnPI be used to report on this objective / target(s)? No, Yes, If yes what is the EnPI metrics?						

A-630-001 Energy significance guidelines

GUIDELINES FOR ASSESSING ENERGY SIGNIFICANCE	Date Approved:	DATA Form A-630-001	
With reference to Column 4 of the Energy Assessment Worksheet , F-630-001 a simplest method of assessing / quantifying the significance of energy use / consumption is to use the letters H or M or L to indicate whether the Severity and Occurrence are high or medium or low.			
H = High			
M = Medium			
L = Low			
In general:			
When both Severity and Occurrence are High, the en the process step requires improvement action	ergy use is sigr	nificant, and	
When one or both the severity and the likelihood are additional reviews are required to identify existing co eliminate the energy use.	indicated as me onditions that re	edium, educe or	
Below is a method to quantify the energy assessment.			
<u>S = Severity of the Outcome</u>			
High = 10, 9, 8	`		
Medium = 7, 6, 5, 4			
Low = 3, 2, 1			
L = Likelihood of the Occurrence			
High = 10, 9, 8			
Medium = 7, 6, 5, 4			
Low = 3, 2, 1			
(L x S) = Significance of energy use,			
High = 100 to 50 range			
Medium = 49 to 16 range			
Low = 15 to 1 range			
Significance of Use and Consumption			
A variation in the method to analyze the Severity and Lik	elihood and asse	ess the	
significance or energy performance associated with the p	process step.		



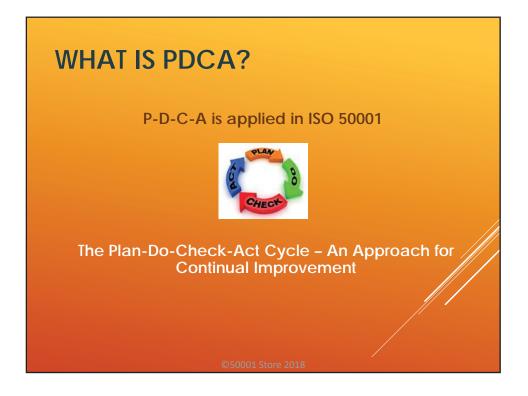


Every employee in your company has an important role to play in the Energy Management System (EnMS).

You are participating in this training to learn the basics of this management system, and what it means to be ISO 50001 registered and how it will affect your job.

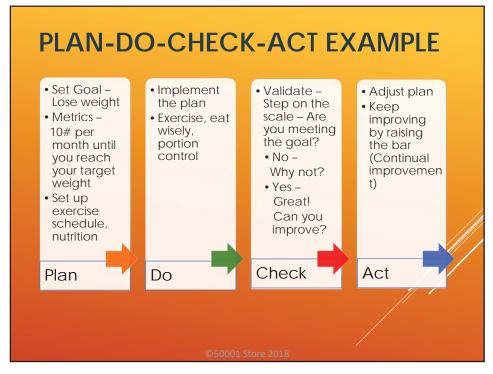


Let's start with some fundamentals.



ISO management systems use some common formats to keep them simple.

One is the Plan-Do-Check-Act (P-D-C-A), a continual improvement approach.



You could consider a diet an example of a "Nutritional Management System".

This is basic, common sense, put into practice.

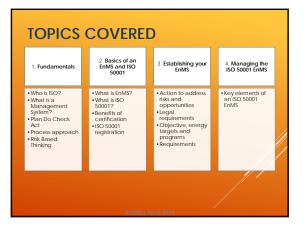
In this example, there are very common ideas for each of the Plan Do Check Act components. Sometimes the best solutions are not too complicated, and much more likely to be effective if you have a structured plan in place.

Continual improvement keeps your momentum going and helps you improve your goal. If you don't improve, you may stop putting in the effort and will ultimately fall backwards.

Student Guide included with space for notes



1



2

SECTION 1 - FUNDAMENTALS

• Who is ISO?

- What is a Management System?
- P-D-C-A Continual Improvement Cycle
- Process approach
- Risk-Based Thinking



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THE REQUIREMENTS OF ISO 9001:2018

82 page PowerPoint Presentation

TOPICS / QUESTIONS COVERED

- What is ISO 50001?
- What is needed for registration to ISO 50001?
- What are the requirements of ISO 50001:2018?
 - Section 4 Context of the Organization
 - Section 5 Leadership
 - Section 6 Planning
 - Section 7 Support
 - Section 8 Openation
 - Section 9 Pertormance Evaluation
 - Section 10 Improvement
- What are the next steps?

WHAT IS A MANAGEMENT SYSTEM?

Your organization is made up of several Management Systems, which operate within your overall Business Management System. Example:

- Financial (FMS)
- Quality (QMS)
- Environmental (ENIS)
- Safety (SMS)
- Energy (EnMS)
- IT (MIS) etc.





Requirements of ISO 50001:2018

88 page Trainer's Guide

Trainer's Guide



This training is aimed at the reading the Requirements of an Energy Management System (EnMS)".

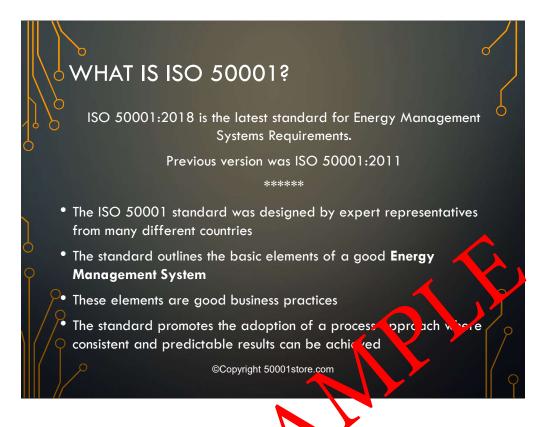
It is a Clause-by-Clause explanation of ISO 50001:2018, the International Standard for Energy Management Systems.

Trainer's Guide including speaker's notes



The requirements of ISO 50001:2018 are described in 7 clauses or sections

- Section 4 Context of the Organization
- Section 5 Leadership
- Section 6 Planning
- Section 7 Support
- Section 8 Operation
- Section 9 Performance Evaluation
- Section 10 -Improvement



The International Standardization Organization (ISO) has representatives from some 180 member countries that make up a Technical Advisory Group (TAG).

These groups draft the standard, then members comment and vote on the standard.

The document then becomes an ISO standard.

These standards are not regulations.

They are a method of getting a standard set of criteria for Energy Management Systems.

An outside agency, the registrar, will then audit to see if you have all the required elements in place. If you do, you will get ISO 50001 registration.

This registration tells others all over the world that you have an energy management system in place.

As we go through the presentation and cover the requirements you will see that these requirements are basically just good business practice that conserve energy and improve your energy performance.



Requirements of ISO 50001:2018

34 page Student Guide

Student's Guide

Student's Guide includes space for notes



1

TOPICS / QUESTIONS COVERED

- What is ISO 50001?
- What is needed for registration to ISO 50001?
- What are the requirements of ISO 50001:2018?
 - Section 4 Context of the Organization
 - Section 5 Leadership
 - Section 6 Planning
 - Section 7 Support
 - Section 8 Operation
 - Section 9 Performance Evaluation
 - Section 10 Improvement
- What are the next steps?



2

WHAT IS ISO 50001?

ISO 50001:2018 is the latest standard for Energy Management Systems Requirements.

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revious version was ISO 50001:201

- The ISO 50001 standard was designed by expert representatives from many different countries
- The standard outlines the basic elements of a good Energy
 Management System
- These elements are good business practices

Includes two quizzes

31. An energy data collection plan must be defined and implemented and specify the data necessary to monitor key characteristics.	T Clause:	F Clause:
32. The EnMS does not have to continually improve	F	F
its suitability, adequacy, and effectiveness,	Clause:	Clause:

Find the Requirement:

	Clause:
1. Establish an energy policy that includes a commitment to ensure the	
availability of information and the resources required to achieve	
objectives and energy targets.	
2. Establish and continually improve the energy management system	
(EnMS) that includes the processes needed and their interactions.	
3. Understand and consider the external and internal issues, the	A
requirements of interested parties, and the relevant legal requirements	
relative to energy efficiency, energy use and consumption when	
determining the scope of the EnMS.	
4. Maintain a process to access legal and other requirements that that	
to energy efficiency, energy use and consumption.	
5. Top management demonstrates commitment with respect to the	
EnMS by ensuring that the energy policy, objectives and energy largets	
are established and are compatible with the strategic direction.	
6. Documented information required by the EnMS and the PO 50001	
standard is controlled to ensure that it is available for use where and	
when it is needed.	
7. Retain as documented information, the suggested improvements	
made by personnel doing work under the control of the company.	
8. Control documented information to ensure that it is adequately	
protected such as from loss of confidentiality, improper use or loss of	
integrity.	
9. Maintain as documented information the methods and criteria used to	
develop the energy review.	
10. Determine the risks and opportunities that need to be addressed to	
give assurance the EnMS can achieve intended results, prevent or	
reduce undesired effects, and achieve continual improvement.	
11. Consider how the actions to achieve objectives and energy targets	
can be integrated in the business processes.	
12. Ensure that persons whose work affects the performance of the	
EnMS are competent based on education, training, or experience.	
13. Maintain as documented information the methods and criteria used	
to develop the energy review.	
14. When available data indicates that relevant variables significantly	
affect energy performance, consider such data in establishing EnPIs.	
15. When available data indicated that relevant variables significantly	

ISO 50001:2018 Energy Management Systems – The Internal Audit Checklist

This checklist is based on the information provided in the ISO 50001:2018 international standard. The checklist is best used by trained and practicing auditors to evaluate or assess the Energy Management System (EnMS) requirements based on the standard. You will see questions on the checklist that refer to the standard and for each clause provisions are made for additional questions.

The auditors are expected to keep in mind that the standard does not requires mandatory procedures for the various system processes; however, the auditors will expect documented information to be available because in the clauses of the standard, the phrase such as 'documented procedures' is used to specify that a process, a method, a system, a work instruction, or an arrangement be documented.

The auditors must use a great deal of discretion and therefore must be careful and thoughtful prior to establishing a deficiency against a requirement. Evidence for visible top management leadership, completence and energy management action must be looked for.

The **bold** numbers and tittles used in the first two columns of the needlis indicate the "Requirements" and may be referred to on nonconformity reports prepared by the auditor.

During assessment of each requirement, auditors record the states of the evaluation by indicating in the right-hand column a

et - Acceptable Condition or **No** - for Deficient Condition

	ENERGY MANAGEMENT SYSTEMS REQUIREMENTS	OBSERVATIONS / COMMENTS	STATUS
4	CONTEXT OF THE ORGANIZATION		
4.1	Understanding the organization and its context		
	As an organization, does your company determine external and internal issues that are relevant to your purpose?		
	Do you consider the relevant issues that affect your ability to achieve the intended outcomes of the Energy Management System (EnMS)?		

to

Audit conducted by:

Date: _____

ISO 50001:2018 Energy Management Systems – The Internal Audit Checklist

	Additional Questions		
4.2	Understanding the needs and expectations of interested parties		
	Has your company determined:		
	• The interested parties that are relevant to the EnMS and to energy performance?	10	
	• The relevant requirements (needs and expectations) of the interested parties?	ne	
	Which of the needs and expectations become applicable legal requirements & other requirements?	17	
	Has your company:		
	• Ensured that it has access to the applicable legal requirements and other requirements related to energy efficiency, energy use and energy consumption?		
	• Determine how these requirements apply to energy efficiency, energy use and energy consumption?		
	• Ensured that the requirements are considered?		
	• Reviewed legal requirements and other requirements at defined intervals?		
	With reference to the note in 4.2:		

ISO 50001:2018 Energy Management Systems – The Internal Audit Checklist

	 For additional information on compliance management do you refer to ISO 19600? 		
	Additional Questions		
4.3	Determining the scope of the energy management syste	em	
	To establish the scope of the EnMS, does your company determine its boundaries and applicability?	10	
	When determining the scope of the EnMS, do you consider the:	ne	
	The external and internal issues per above 4 1?		
	The relevant interested parties per above 422		
	Does your company ensure that it has the authority to control its energy efficiency, energy use and energy consumption within the scope and boundaries?		
	 Within the scope and boundaries, are all energy types included? 		
	Is the scope of the EnMS maintained as documented information?		
	Additional Questions		
4.4	Energy management system		

ISO 50001:2018 Energy Management Systems – The Internal Audit Checklist

	Do you have the latest document for ISO 50001:2018?		
	• As required by the ISO 50001 standard, do you establish, document, implement, maintain, and continually improve the EnMS?		
	• Does your company determine the processes needed for the EnMS, their interactions and applications?		
	With reference to the note in 4.4:	10	
	 Do you recognize that the needed processes can differ from one company to another because of the size of organization, the type of activities, processes, products and services, the complexity of processes and their interactions, and the competence of the personnel? Additional Questions 	RIE .	
5	LEADERSHIP		
5.1	Leadership and commitment		
	Does the top management demonstrate leadership and commitment with respect to the EnMS by:		
	• Ensuring that the EnMS scope and boundaries are established?		

Welcome to ISO 50001:2018

Our Company is working on becoming ISO 50001:2018 registered. This international standard provides for an Energy Management System that outlines some good basic business practices that we need to have in place. By implementing an Energy Management System (EnMS) that complies with the international standard, we will be able to do our part in improving energy performance for our company.

Why does our company want to become ISO 50001 registered?

The main reason is that it is the right thing to do! All of us want to do our part in having our company conserve as much as possible the energy that is available and needed to operate our business and where the waste of energy is eliminated or at least reduced. Not only do we want to be good energy stewards, we want to improve our energy performance as an organization. An important benefit is that we will be able to maintain our position in the market place because more and more customers and countries are becoming energy conscious and are requiring that suppliers show proof of sound energy commitment and management.

What will employees need to do for the ISO 50001:2018 Energy Management System?

First, management will be looking at our company's activities and processes. They will be performing assessments to identify the significant energy uses and determine how they affect energy performance. They will then determine the actions needed to address the energy risks and the opportunities and control the processes to make sure we continually improve our activities. Controlling the processes means documenting the procedures and work instructions, training employees and finding ways to make sure that the activities are done consistently no matter who is involved.

This means that employees may be required to have specialized training, or to follow specific work instructions. Employees will need to be aware that "It is Everyone's Job to Conserve Energy".

ISO 50001:2018 Highlights: Things that you will be hearing about as we proceed with this project....

Our Energy Policy

We will identify our Energy Policy and will be communicating it to all in our company. It is important that all of us are aware of what this statement says about what our company's vision is for meeting energy commitments.

Registration Audit

To become ISO 50001:2018 registered, we will be audited by a registration company. This will happen after we have set up the systems to meet all the requirements of the standard.

The 'Registrar' will send an auditor or audit team to our facilities and evaluate the energy system we have in place. They will check to see if the system meets the requirements of the standard and see if we follow our processes. If everything looks good, we will be recommended for registration and be awarded a certificate and be recognized globally!

Watch for our next newsletter for more introduction to ISO 50001:2018, what it will mean to you and your coworkers.