The Benefits of ISO 50001 Certification
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International Organization for Standardization (ISO) Overview
ISO is the International Organization for Standardization. ISO has a membership of some 160 national standards bodies from countries large and small, industrialized, developing and in transition, in all regions of the world. ISO’s portfolio of over 18600 standards provides business, government and society with practical tools for all three dimensions of sustainable development: economic, environmental and social.

What is ISO 50001?
ISO 50001 is the new international Energy Management Standard (EnMS) and the first of its kind. The standard is modeled after a range of national and regional standards such as EN 16001. ISO estimates that the ISO 50001 standard could affect up to 60% of the world’s energy use. It has been designed for implementation by any organization regardless of size or geographical location.

Goals of ISO 50001
- Assist organizations in making better use of their existing energy-consuming assets
- Offer guidance on benchmarking, measuring, documenting, and reporting energy intensity improvements and their projected impact on reductions in GHG emissions
- Create transparency and facilitate communication on the management of energy resources
- Promote energy management best practices and reinforce good energy management behaviors
- Assist facilities in evaluating and prioritizing the implementation of new energy-efficient technologies
- Provide a framework for promoting energy efficiency throughout the supply chain
- Facilitate energy management improvements in the context of GHG emission reduction projects.

Benefits of Implementation
- Reduce environmental impact
- Create transparency on how energy resources are managed
- Be able to identify future projects that will integrate into your new structure
- Promote energy efficiency throughout your organization
- Establish positive external relations and public image
- Raise awareness and create greater employee stewardship
- Reduced operational and overhead costs lead to increased profitability
- Reduced air emissions, such as GHGs
- Increased assurance of legal, internal compliance
- Increased understanding of energy use and consumption via defined methods, processes of data collection

ISO 50001 Energy Management System

Checklist for Certification
1. Purchase the ISO 50001 Standard
2. Conduct Training
   - Understanding the standard is the first step toward certification. Training is vital not only for your Core Team, but also for Top Management. In order for the Energy Management System to be successful, the entire company needs to be on board with the mission. An overview course is recommended for those who need a basic understanding of ISO 50001. Executives and senior managers typically attend this type of course. The Understanding and Implementation Course is recommended for the Core Team that will be implementing the standard.
3. Perform a Gap Assessment
   - The Gap Assessment is performed once the mandatory internal audit is completed. This assessment is used to determine whether or not your implementation plan is adequate enough for ISO 50001 certification. Any “gaps” between the assessment and implementation plan will be filled in order to integrate a complete ISO 50001 system.
4. Leadership Team Commitment
   - Selection on management representatives and energy management team
   - Definition of roles, responsibilities, and authorities
   - Identification of additional resources that will be needed
   - Definition of the scope and boundary of the system
   - Development of the overall Energy Policy, including commitments
5. Core Process Mapping and Planning
   - Establishment of the Energy Policy and its commitments. This will provide the framework needed for the planning portion of the Energy Management System (EnMS) and requires the following:
     - Energy Review – Significant uses
     - Legal & other requirements
     - Objectives, targets, and management programs
     - Links to operational controls, monitoring, and measuring
6. Documentation Inventory
   - Develop documents needed for your EnMS, such as charts and procedures for employees.
7. Implement Your ISO 50001 Energy Management System
   - Complete the documentation and incorporate your Energy Management System into your business procedures.
8. Additional Training and Communications Strategies
9. Establish Key Measurables and Evaluate
   - The standard is based on continual improvement using the data from the first internal audit as a baseline measurement.
10. Internal Audits
    - Future internal audits are conducted to determine the efficiency of the EnMS. These audits define the areas operating in accordance with the plan, as well as the areas that require more focus.
11. Develop Non-Conformities, Correction, Corrective, & Preventive Actions
    - Any non-conformities found after the internal audits should be verified as corrected or prevented.
12. Conduct Management Review
    - A management review is crucial at the end of the first year of implementation to confirm that the EnMS is fully functioning and that your organization is ready for a certification assessment.
13. Follow-Up and Continual Improvement
    - The follow-up is based on the Management Review and is used for future improvement of the Energy Management System.

Thank You
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