

ISO 50001 – ENERGY MANAGEMENT STANDARD



WHAT IS AN ENERGY MANAGEMENT SYSTEM?

Energy Management Systems (EnMS) offer a systematic approach and a recognized framework to monitor and reduce the energy consumption in all types of organizations, including industrial, commercial, hospitality and health care. ISO 50001 is based on a Plan-Do-Check-Act cycle, with requirements for establishing an energy policy with measurable objectives, taking actions to monitor and reduce energy use, and verifying energy savings and planning improvements. ISO 50001 has a similar structure to ISO 14001 and can easily integrate into an existing Quality, Safety and/or Environment Management Systems.

WHAT ARE THE BENEFITS OF IMPLEMENTING AN ENERGY MANAGEMENT SYSTEM?

- Significant financial savings and increased profitability can be achieved through increased energy efficiency and reduced operational and overhead costs
(Forecasts indicate energy prices will increase by at least 20% by 2020)
- Increased understanding of energy use and consumption via defined methods and processes of data collection
- Demonstrate to stakeholders your commitment to environmental preservation, as well as, cost reductions and profitability
- Raise your staff's awareness on the importance of energy consumption and reduction
- Positive contributions toward depletion of energy resources
- Mitigate worldwide effects of energy use
- Utilize a single, harmonized standard for implementation across multiple locations, including international locations
- Provide a framework for promoting energy efficiency throughout the supply chain
- Easily integrate with other organizational management systems such as environmental, health and safety
- Reduced air emissions, such as GHG's
- Enhanced marketing capabilities
- Ensure best practice energy management systems are in place
- Allocate cost/CO2 across all manufacturing processes
- Benchmark for continuous process improvement
- Prioritize / verify energy efficiency measures



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HOW DO I GET THERE? WHERE DO I START?



1. OBTAIN TOP MANAGEMENT COMMITMENT

Make the business case for the success of the energy management system.



2. ACQUIRE ENERGY DATA/TRACK AND ANALYZE ENERGY DATA

You can't manage what you don't measure; therefore, to improve energy use, you must understand all uses of energy in the organization via a process of an energy review - collecting and analyzing data on your current energy sources including, past energy consumption.



3. DETERMINE SIGNIFICANT ENERGY USES

Prioritize major sources of energy consumption.



4. ESTABLISH A BASELINE

Establish an appropriate time period to serve as an energy baseline, and “draw a line in the sand.”



5. IDENTIFY AND PRIORITIZE OPPORTUNITIES FOR ENERGY IMPROVEMENTS

Identify areas of improvement through numerous sources – employee suggestions, utility representatives, service technicians, equipment vendors, equipment standards, as well as, a variety of energy assessment tools, standards and guides. Once areas for improvement are discovered, a systematic approach (using decision criteria such as ROI, energy savings, business goals, risk, etc..) helps prioritize and focus organizational efforts.

WHAT ABOUT CERTIFICATION?

Initial step is applying to a Registrar, followed by document review and Stage 1 readiness assessment. Once completed, a Stage 2 on-site implementation assessment is required. Any issues identified are resolved in a timely manner. Once issues are resolved, a certificate of conformance, valid for three years, is issued, followed by a routine surveillance program to ensure compliance.

OUR ENERGY MANAGEMENT TEAM COALITION CAN ASSIST WITH ALL PHASES OF THIS JOURNEY



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