Energy Management System (EnMS) (ISO 50001:2018)

KSPC with six decades of training and consulting experience is now providing consultancy service to organizations in implementing **Energy Management System (EnMS) (ISO 50001:2018)** to improve their energy performance.

KSPC (Kerala State Productivity Council) was established in 1959 as an autonomous tripartite organisation with representation from Kerala State Government, Management and Labour. It is affiliated to the NPC (National Productivity Council) New Delhi and Asian Productivity Organisation, Tokyo, Japan. The council is one of the premier consultancy and training organisations in the country in the area of Productivity Improvement.

KSPC believes in consultancy and implementation and not merely on the submission of reports of academic interest. Adequate implementation support is provided by KSPC to achieve the desired results.

Energy Management System (EnMS) (ISO 50001:2018)

The purpose of this International Standard is to enable organizations to establish the systems and processes necessary to improve Energy Performance, including Energy Efficiency, Use and Consumption. This International Standard specifies Energy Management System (EnMS) requirements, upon which an organization can develop and implement an Energy Policy, and establish objectives, targets, and action plans which take into account Legal Requirements and information related to Significant Energy Use (SEu). This International Standard is based on the Plan - Do - Check - Act (PDCA) continual improvement framework and incorporates energy management into everyday organizational practices.

ISO 50001:2018 provides a framework of requirements for organizations to: (In addition to the above mentioned points)

- Use data to better understand and make decisions about energy use
- Measure the results
- Review how well the policy works, and
- Continually improve energy management.

ISO 50001:2018 specifies requirements for establishing, implementing, maintaining and improving an energy management system (EnMS). The intended outcome is to enable an organization to follow a systematic approach in achieving continual improvement of Energy performance and the EnMS.

AIM

There are a number of key reasons to improve Energy Management System in any organisation:

- ➢ To conserve Energy
- ➢ To save costs;
- ➢ To comply with legislation;
- ➢ To manage risk related to Energy supply/usage;
- ➢ Continually improve EnMS Performance;
- ➢ Improve competitive performance in the market by better Energy Management.

BENEFITS

- ✓ Management of Energy Risk.
- ✓ Significant increase in Energy Performance from Baseline.
- ✓ Considering Energy as a variable cost to a business provides the opportunity to discover the size of the potential savings.
- ✓ This can lead to gains in the market place as the company is perceived to be well run and to have 'green credentials'.

- ✓ This approach fits into management best practice initiatives such as Total Quality Management (TQM) and the European Foundation for Quality Management.
- ✓ Reduction in vulnerability related to Energy needs
- ✓ Better Awareness at all levels (Energy consciousness)
- ✓ Drive for greater efficiency.
- ✓ Security of Energy supply issues leads to the need to protect essential services, for example, on-site generation to protect servers and prevent potential loss of data.

IMPLEMENTATION STEPS

1. Documentation of the system

    a) Identification of Strategic Context, Issues (Internal and External), Interested Party Needs, Risks & Opportunities
    b) EnMS Policy and Objectives
    c) Action Plans for the above
    d) Prepare Energy Baseline
    e) Identify significant Energy uses (SEUs)
    f) Regulatory Requirements
    g) Resource Requirement
    h) Compliance Checking
    i) Competence Requirement
    j) Operational control procedures (OCP)
    k) Monitoring Methods
    l) Non Conformity Control
    m) Control of documentation

2. Implementing the system
3. Training all employees
4. Developing an auditor team
5. Auditing the implemented System
6. Taking action on audit findings
7. Conducting management reviews
8. Stage I Audit by third party auditor
9. Certification audit (Stage II)/Clearance of Certification Audit and Obtaining Certification

The certificate is valid for 3 years. Periodic audit will be conducted by third party auditor once in 6 month or 1 per year depending on the size of the organisation. At the end of 3 years the certificate is to be renewed.

KSPC's Role

Conduct training workshops to make you understand the stipulations of the international system standards, preparing the documentation, conducting audits and reviews, in short all the activities needed to merit certification.

KSPC will help to reach your organization at high standards expected by the international certifying bodies by standing shoulder to shoulder with you in the endeavor of implementing professional systems.

KSPC can make a short presentation of 1 to 2 hours to the management team as a LIVE online meeting to introduce the topic and clarify any doubts.

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