ORGANIZATION OF ENERGY MANAGEMENT IN MANUFACTURING ENTERPRISES AND ORGANIZATIONS

Cafe of alternative energy sources
Energy saving and energy audit direction
Candidate: ***Ismailov Ilhomjon***
Scientific supervisor: PhD ***D.D.Alijanov***

Abstract

Energy management (English: management — management, organization) is a special management activity. The energy management system is the most necessary system right now, as the demand for energy is increasing, as a result, we are using our natural resources without clear plans. It is estimated that our natural resources will run out by 2050.

Using the ISO 50001 Energy Management System in Manufacturing Industrial Enterprises for rational use of energy, reduction of wastage, and savings helps to eliminate such problems.

Key words: Energy, Management, ISO 50001, Efficiency, Energy saving, Economy

Due to the need to conserve energy and reduce greenhouse gas emissions worldwide, energy management is now a global focus. Energy-saving technologies and devices are only part of the methodologies for improving energy efficiency. A more rational and systematic approach to sustainably improve an enterprise's energy efficiency is to create and implement a standardized, process-based energy management structure. Published on June 15, 2011, the ISO 50001 Energy Management System (EnMS) standard is a globally accepted framework for energy management that provides technical and management strategies for businesses to improve energy efficiency, reduce costs, and improve environmental performance. The ISO 50001 energy management system is gradually being implemented in enterprises.

Smart use of energy helps organizations save money and resources, and reduce their impact on the environment and climate. ISO 50001 supports organizations in all industries in their efforts to use energy more efficiently by developing an energy management system.

ISO 50001 is based on a management system model focused on continuous improvement[9]. Used together with other well-known standards such as ISO 9001 or ISO 14001, it allows organizations to integrate energy management with their efforts to improve quality and the environment.

The decision of the President of the Republic of Uzbekistan on rapid measures to increase the energy efficiency of economic sectors and the social sphere, introduce energy-saving technologies and develop renewable energy sources, according to the road map, the network diagram of the introduction of the energy management system by Ozbekneftgaz JSC in accordance with the requirements of the international standard (ISO 50001) developed and approved. Currently, the Mubarak Oil and Gas Production Department, Mubarak Gas Processing Plant, Ustyurt Gas Processing Plant and Uz-Kor Gas Chemical joint venture under the jurisdiction of Uzbekneftgaz JSC are gradually implementing the energy management system in accordance with the requirements of the international standard (ISO 50001). is increasing. Its resources are at serious risk as a result of irresponsible and careless use. Energy resources are dwindling, climate change is occurring and the ecological balance is disturbed.

Therefore, the issue of energy management is more than ever on the world agenda. Regardless of the field of activity, their responsibility to the environment is questioned. Every business needs to take concrete steps to address and raise the issue of energy efficiency. As consumers' awareness of energy efficiency increases, government and non-government organizations strive to reduce energy consumption and ensure sustainability. Companies that do not implement the ISO 50001 standard are left behind in the competitive environment and lose market share[1].The benefits of ISO 50001 Energy Management System are listed below:

- Reduces energy consumption

-Reduces greenhouse gas emissions and legal obligations of the enterprise

-Determine the weaknesses and risks of energy resources

-Increasing awareness about energy management

-Energy policy and business goals are formalized

-Easy integration with quality management system, environmental management system and other systems used in the enterprise

Analysis

According to a 2006 Energy Management System study, only 1 in 5 percent of businesses have an energy manager. Only 20% of enterprises have set energy efficiency improvement targets. Only 22% of the enterprises were engaged in energy

assessment. Only 8% of enterprises have provided energy management training to their employees.

Today, energy resources are becoming less and less, which requires not only business, but also sensitivity in terms of energy management. In this context, it is important to look for new energy resources while preserving the existing resources and using them more efficiently. The importance of the energy management system is clear here. This system is business,

It allows them to set energy policies and goals and create energy processes

Energy enables the preparation, management and implementation of event plans

It allows energy to reach its goals and objectives

Increase energy awareness among senior management and all employees

Reveals the importance of energy conservation and implements operational management to ensure continuity

Enables routine energy measurement and analysis

Enables control and improvement of energy efficiency

With energy management research, companies have a systematic approach. On the basis of this approach, energy efficiency increases, energy density decreases, the decision-making process of top management becomes effective, organizational and cultural changes are implemented in the enterprise, and enterprises that cannot ensure proper management of resources are provided with competitiveness. recognizes the social responsibilities of employees and adheres to them in accordance with legal and local standards. Identifying business locations for carbon accounting.

Summary

The energy management system is a system that ensures the achievement of the company's energy plans, specific goals and energy goals, ensuring the continuity of the energy saving process, measuring and monitoring energy use, and improving the energy efficiency of the enterprise. This system is part of the social responsibility of business. If we apply this energy management system to production enterprises, if we implement this system, we will achieve excellence in energy management of enterprises. Any type of energy is effectively saved. Various interruptions, malfunctions and accidents are not observed in the energy supply.

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