Energy audits are a valuable tool for facilities and operations looking to reduce their energy costs, improve environmental sustainability, and meet energy efficiency and ESG goals.

A KEY ROLE IN MANAGING ENERGY CONSUMPTION

Energy audits play a key role in helping manage energy consumption. These audits provide an in-depth look at specific energy usage patterns within a building or facility. It goes far beyond a simple examination of energy bills; rather, it delves deep into the intricate details of energy consumption patterns, system inefficiencies, and potential areas for optimization.

An energy audit serves as a roadmap toward optimizing your energy consumption and is key to developing an overall energy management program. During the energy audit, our team of experts will:

1) Collect and review data from substations, floor mains, breaker panels, machine panels, and individual motor circuits, this can be short term during a visit or long-term remote monitoring.
2) Conduct facility and building surveys and system measurements
3) Observe and review operating practices
4) Provide data analysis that can be used to determine where, when, why, and how energy is being used in the plant

Our team of energy auditors has years of electrical engineering and plant operations experience focused on improved efficiency in all aspects of energy usage. Traditionally, energy is transferred from electricity or gas to become hydraulic, steam, air, vacuum, or another more specialized energy form. Each form has its own loss of efficiency. Reducing conversions is a great way to reduce energy consumption and increase reliability. Short term audits will reveal these gaps in efficiency, while long term audits will continue to monitor as changes to these systems take place.

The results of our energy audit will include:

- Operation or maintenance change recommendations that will save energy with little to no cost
- Short-term, low-cost retrofit options for quick energy usage reduction
- Long-term improvements usually requiring capital investment
- Identification of overstressed areas likely to cause a hazard or reliability concern

These results can also be used to obtain efficiency levels for standards such as ISO 50001-Energy Management. Plant managers and owners may also find value in a detailed review of plan metering and utility tariffs for potential cost savings.

Energy audits are a valuable tool for industrial facilities seeking to improve their operations, reduce costs, and make a positive impact on the environment and their bottom line.

- Environmental Impact: Reduced energy consumption as a result of energy audits can lead to a decrease in greenhouse gas emissions and other pollutants, contributing to a more sustainable and environmentally proactive operation.
- Compliance with Regulations: Many industrial facilities are subject to energy efficiency regulations and standards. Energy audits can help ensure compliance and avoid penalties or fines.
- Enhanced Productivity: Improved energy efficiency can lead to more reliable and consistent production processes, reducing downtime and increasing productivity.

Questions?

To learn more about our energy audit capabilities, please contact:
Dedrick.Cooper@ehs-support.com