INDUSTRIAL ENERGY AUDIT

K.L.N. College of Engineering
Pottapalayam - 630 612.
Sivagangai District, Tamilnadu

Energy Auditing...

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Contact us:

Energy Management Cycle

Planning and Organisation
Implementation
Verification, Monitoring and Reporting
Commissioning
Understanding Energy Use
**ENERGY AUDIT TEAM**

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**ELECTRICAL ENERGY AUDIT:**

Electrical Energy Audit forms an integral part of an Industrial Energy Audit. It is one of the two main forms of energy that is being audited and accounted for during Energy Audit. For some of the Industrial which do not have Thermal Utilities the Energy Audit will only consist of Electrical Energy Audit. Industrial Energy audit is fundamental to a comprehensive energy management programme and is defined in EC Act 2001.

Electrical Energy Audit consists of Studying, Assessing, Measuring and Analyzing electrical utilities. In a typical Plant the electrical utilities of Substations and / or Transformers, Power Distribution System (PCC, MCC), Metering and Monitoring System, Motors, Blowers, ID/ FD Fans, Compressors, Pumps, Lighting, etc.

Additionally Electrical Energy Audit also consists of Power Quality Analysis. Study and Analysis of Harmonics forms the main constituents of Power Quality issues. Other Power Quality issues include Sag, Swell, Voltage Fluctuations etc. During the audit, sophisticated instruments such as Power Analyzer (Single phase and Three phase), Harmonics Analyzer, Megger etc. are used by the Energy Auditors to carry out measurements of various electrical utilities. Analysis of electrical consumption is done based on these measurements.

**ELECTRICITY BILLS:**

Further to this analysis of electricity bills, energy consumption trends, benchmarking in line with process requirement is also carried out as per the Bureau of Energy Efficiency (BEE) standards.

**ENERGY AUDIT:**

Energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input to the system without negatively affecting the output(s). In commercial and industrial real estate. The energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprints.

Energy Audit is the first step in Energy Conservation and Energy Efficiency Projects for Industrial plants. First and foremost advantage is cutting down on the production cost as Energy costs are ever-rising. Energy Conservation and Energy Efficiency Solution implementation is next. Major areas include Electrical Energy Conservation, Electrical Energy Efficiency, and Thermal Energy Conservation, Fuel Optimization etc.

**OUR WORKS:**

- Our Energy audits will evaluate your facility "as a whole", to consider a wide range of available facilities (Electrical, Mechanical, Envelope and Water).
- The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on the financial benefits and return on investment.
- Provide you with solid, easy to understand technical information regarding the proposed energy conservation measures.
- A good quality audit will analyze your historical energy use and find potential issues using statistical methods.
- Provide you with emission analysis to help you understand the benefits of your decisions from an environmental standpoint.
- Understand where energy is used and which areas are worth focusing on the most.
- The cost-benefit analysis of the audit suggestion would help decision makers prioritize opportunities and evaluate them as investment.
- Training will be provided for the users, operators, Engineers.

**BENEFITS OF ENERGY AUDIT:**

Reduces Electrical Bills, Increase energy efficiency, Reduce energy usage, Improve indoor air quality, Produce consistent interior temperatures, Reduce interior drafts, Improve humidity control & ventilation.

Training will be provided for the users, operators, Engineers.

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**OUR CLIENTS**

- Positive Power Solutions, Madurai
- TVS Sundaram Iyengar & Sons, South Valli Street, Madurai
- Vijay Polymers SIPCOT, Thiruvallur
- J.K. Fenner (India), Kochadai, Madurai