



# ENERGY AUDITS

**“Missing out on valuable data from critical points is not an option for wireless monitoring systems.”**

**Achieve profitable cutbacks in utility operational expenditure by assessing and optimizing your energy resources”**

## **Demand Forecasting & Financial Impact**

IMMUSCO’s expert team of engineers and analysts helps you in addressing areas of improvement, whereby potential monetary savings could be performed. Every consumption resource is evaluated for its performance parameters and KWH ratings. A detailed energy audit facilitates owners in making best judgments about load reductions and operational hours adjustments.

## **Energy Resource Management**

Optimization of energy consumption devices does not necessarily yield appropriate results by merely replacing existing devices with low wattage equipment. Energy resources available to a facility are studied in comparison to globally acknowledged practices and recommended ISO standards. Installed loads and their applications are assessed based on their quality and requirements, and thereby resources management is planned and executed for energy profile optimization



# Energy Inspection

IMMUSCO's certified and professionally trained engineers are well versed in the art of inspection methodologies for energy assessment. State of the art monitoring techniques and world class inspection instruments enable energy auditors to evaluate the consumption patterns and equipment efficiencies in the most reliable way possible.

## Lighting



Amongst various types of loads, lightings contribute to a major percentage of energy consumption in a facility. Lighting intensity is measured by the lux meters for studying compliance with the ISO standards depending upon the type of application. Low wattage LED lights replacement opportunities arise by the conclusive decisions made based on monitored results of lumens per unit area.



## Air Conditioning & Refrigeration



Highest load consumption equipment in any industry or commercial unit majorly constitute the HVAC systems. Energy impact and performance losses in the air conditioning quality are addressed by monitoring the thermal leaks in supply ducts through infrared temperature monitoring.



## Compressed Air & Gases



Pneumatic valves, air regulators and compressed air supply ducts are susceptible to leakages and energy losses. Ultrasonic acoustic monitoring helps in identifying the points that need to be rectified.



## Power Quality



Electrical systems and equipment are subjected to catastrophic failures and interrupted communications due to current harmonic distortions. Power analyzers help in addressing the issues related to back currents, reactive power, distorted signals and power factor.



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