

GES ENERGY AUDIT

The Main Objective of Our Energy Audit is to achieve and maintain optimum energy procurement and utilization, throughout the organization. The Fundamental goal of GES Energy Audit is to produce goods and provide services with the least cost of energy and least environmental effect.

High Lights on GES ENERGY AUDIT

1. With our Advance Data Analytics Algorithm, we are able to predict Break down of any motor connected machine in advance.
2. Able to Improve Transformer Efficiency in Real time.

Type of Energy Audit:

The type of GES Energy Audit to be performed depends on: -

- a. Function and type of industry
- b. Depth to which final audit is needed, and
- c. Potential and magnitude of cost reduction desired

Thus, Our Energy Audit can be classified into the following two types.

- i) Preliminary Audit (Max 25 % Savings without Investment)
- ii) Detailed Audit (Max 45% Savings without or min Investment which covers subsidy-client side)

Preliminary Energy Audit Methodology (25% Savings)

- ↘ Preliminary energy audit is a relatively quick exercise to:
- ↘ Establish energy consumption in the organization
- ↘ Estimate the scope for saving
- ↘ Identify the most likely and the easiest areas for attention
- ↘ Identify immediate (especially no-/low-cost) improvements/ savings
- ↘ Set a 'reference point'
- ↘ Identify areas for more detailed study/measurement
- ↘ Preliminary energy audit uses existing, or easily obtained data

Detailed Energy Audit Methodology (45% Savings):

A comprehensive audit provides a detailed energy project implementation plan for a facility, since it evaluates all major energy using systems. This type of audit offers the most accurate estimate of energy savings and cost. It considers the interactive effects of all projects, accounts for the energy use of all major equipment, and includes detailed energy cost saving calculations and project cost.

In a comprehensive audit, one of the key elements is the energy balance. This is based on an inventory of energy using systems, assumptions of current operating conditions and calculations of energy use. This estimated use is then compared to utility bill charges.

Detailed energy auditing is carried out in three phases: Phase I, II and III.

- ↘ Phase I - Pre-Audit Phase
- ↘ Phase II - Audit Phase
- ↘ Phase III - Post Audit Phase

Specialized Areas of Audit:

- Power Quality Audit
- Lighting Audit
- HVAC Audit
- Air Audit
- Thermal Audit
- Liquid Audit
- Furnace & Boiler Audit

Specialized Industries:

Any Industry or factory with LT Service & 11KV, 22KV, 33KV Service which includes:

Textile Mills (Spinning, weaving, knitting & Finishing Plant)

Steel Re-Rolling Mills (oil, Coal & gas fired)

Foundries (Melting, Degassing, Mould making, Shake out, Heat Treatment)

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| <ul style="list-style-type: none"> ✓ Assembly units ✓ Process Plants ✓ Tooling Industries ✓ Carbon Industries ✓ Direct Charging Industries ✓ Aluminium Foundry ✓ Cement Plant | <ul style="list-style-type: none"> ✓ Educational Instructions ✓ Commercial Buildings ✓ Engineering Industries ✓ Hospitals ✓ Solar Plant ✓ Wind Mills ✓ Sugar Industries | <ul style="list-style-type: none"> ✓ Flour mills ✓ Oil Refinery ✓ Automobile Industries ✓ Pharm Industries ✓ Cold Storage Plant ✓ Ship yard |
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Our Audit Equipment's & Tools:

	<p>PQ Analyzer (Fluke 434/ Krykard ALM 36)</p>
	<p>Earth Leak Detector (Make :MECO)</p>
	<p>Clamp Meter (MECO)</p>



Ultrasonic Leak Detector



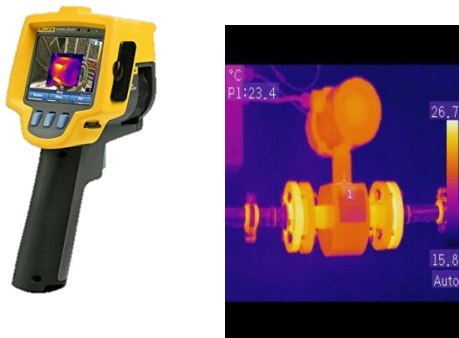
Digital Tachometer



Motor Belt Tension Gauge



Megger DIT 954



Fluke Ti 25 (Thermal Imager)



Testo 540 Lux Meter