

Energy Auditing Services

An independent reference for measuring, benchmarking and reducing energy use to international standards



Field measurement and analysis of energy use across electrical, thermal and mechanical systems, carried out to international standards

Most facilities spend more on energy than they need to, and rarely know exactly where. Energy is lost to oversized equipment, poor control, unbalanced loads and quiet inefficiency that never shows on a single meter. An independent energy audit measures where energy actually goes, quantifies what is wasted, and turns it into a costed plan for cutting consumption.

▪ What an energy audit reveals

A measured audit exposes losses that billing data alone cannot:

- Where energy is consumed, system by system
- Oversized, idling or inefficient equipment
- Poor power factor and electrical losses
- Excess HVAC, lighting and standby loads
- Energy wasted by poor control and scheduling
- Gaps against benchmark performance

▪ Why an energy audit matters

A clear audit gives a facility the basis to:

- Cut energy cost with ranked, costed measures
- Invest on evidence, with payback quantified
- Reduce carbon emissions and meet ESG goals
- Improve comfort, reliability and equipment life
- Support ISO 50001 energy management
- Meet regulatory and reporting obligations

An energy audit turns an unexplained utility bill into a measured, costed plan for cutting consumption



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Scope of Services

Energy audits carried out by Mizan follow the requirements of ISO 50002, the EN 16247 series and ASHRAE Standard 211, so that results are accurate, repeatable and defensible.

- **Energy measurement & survey**
 - Electrical load and power quality logging
 - Thermal, HVAC and compressed-air assessment
 - Lighting and building-envelope review
 - Infrared thermography of plant and connections
- **Analysis & benchmarking**
 - Energy balance and consumption breakdown
 - Benchmarking against performance indicators
 - Identification and costing of saving measures
 - Payback and return-on-investment analysis
- **Applications**
 - Industrial plants and manufacturing
 - Commercial and office buildings
 - Hospitals, hotels and malls
 - Water, utilities and infrastructure
 - ISO 50001 implementation and audits

Technical Reports to ISO & EN Standards

In preparing audit reports, Mizan applies a documentation and analysis methodology aligned with ISO 50002, the EN 16247 series and ISO 50001, ensuring results that are clear, traceable and dependable for decision-making.

The technical reports issued by Mizan include the following:

- A measured energy balance showing where energy is used and lost
- Consumption benchmarked against energy performance indicators
- Energy-saving measures identified, quantified and ranked by priority
- Cost, saving and payback estimated for each recommended measure
- Findings and methodology aligned with ISO 50002 and EN 16247
- A clear, prioritised action plan for reducing energy consumption



On-site logging measures real consumption patterns across each major system

Lower energy cost begins with knowing exactly where energy goes



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