

ENERGY AUDIT SERVICES



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Energy Conservation Company

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Why the Need for Energy Audit

- ❖ To identify Energy Saving opportunities.
- ❖ To increase safety concerns and avoid electrical accidents.
- ❖ To minimize Energy Cost/Wastage without affecting productivity.
- ❖ To understand historical data and benchmark energy use for future effectively and efficiently.
- ❖ To achieve regulatory compliance and reduce carbon emission.

Types of Energy Audits



1. Preliminary Energy Audit

2. Targeted Energy Audit

3. Detailed Energy Audit



Services provided by ES Electronics India Pvt Ltd.

- 1. List of major activities**
- 2. energy audit of all industries**
- 3. thermal audit ventilation**
- 4. water audit**
- 5. HVAC audit**
- 6. electrical safety audit**
- 7. industrial safety audit**
- 8. thermography steam audit**
- 9. performance study of equipment**
- 10. energy balance**
- 11. water balance**
- 12. thermal balance**
- 13. heat recovery projects**
- 14. turn key execution of energy**
- 15. conservation projects**
- 16. harmonics study**
- 17. HVAC design**

Our proven track record

- ▶ 1. Conducted over 100 energy audits globally
- ▶ 2. Energy audits conducted for ISO 50001 compliance
- ▶ 3. Recommended implementation of various energy conservation measures
- ▶ 4. Some of our major audit customers include Mercedes Benz, power grid, Infosys, SBI etc..
- ▶ 5. Our energy audit includes air compressors, HVAC, power quality, thermographic, etc..



Energy audit - Case Study 1

Industry type: textile

Audit type: Air handling units

Energy saving achieved: 30%

Recommendations provided:

- a. Leakage arresting**
- b. Low pressure compressors**
- c. Modification of piping**
- d. Optimization of pressure/oil flow**
- e. Heat recovery from compressors**
- f. Installing of low-loss auto drain trap**



Energy audit - Case Study 2

Industry type: Glass Manufacturing

**Audit type: Air compressors and
HVAC**

Energy saving achieved: 35%

Recommendations provided:

- a. Optimizing operating pressure of compressed air**
- b. Instillation of ventilators**
- c. Introduction of BLDC fans**
- d. Installing centralized inlet air cooling system for compressors**
- e. Installing EMS for all utility systems**
- f. Cooling pads for cooling towers**
- g. Reducing speed of vacuum blowers**
- h. Transvector nozzles for cooling applications**



THANK YOU