

Energy Assessments



Overview:

Increasing cost of existing resources has led to growth in cost of energy. In India, energy costs have risen by more than three fold in the last decade. In this context, energy efficiency can prove to be an effective tool to the industry. Since energy cost is a major component of production cost, excellence in energy efficiency ensures a healthy bottom line through the most productive consumption of energy. Realizing the importance of energy efficiency, the Government of India had enacted the Energy Conservation Act 2001 and constituted Bureau of Energy Efficiency (BEE), as a statutory body under the Ministry of Power. The Act facilitates a regulatory framework to encourage, implement and adoption of new energy efficient technologies.

Preliminary Assessment:

The process involves the verification of “Preliminary Assessment” data and subsequent review to arrive at an energy consumption index while identifying the major energy consumption centres and obvious energy wastages.

Detailed Energy Assessment:

The process involves measurements, data collection and analysis which are usually conducted for different processes as well as energy systems (i.e. pump, fan, compressed air, steam, process heating, etc.). The results of these assessments provide a comprehensive representation of the energy

performance of the organization. The process enables the organization to undertake an economic analysis for the efficiency measures with due consideration for the payback period/ROI.

Post Audit Activities:

Typical approach can include:

- Create performance targets for each facility, department, and operation of the organization to track progress towards achieving the goals.
- Set timelines for actions, including regular meetings among key personnel to evaluate progress, completion dates, milestones and expected outcomes.
- Establish a monitoring system to track and monitor the progress of actions taken. This system should track and measure energy use and project/program activities.

Assessment Approach:

- Offer finalisation with the client based on the information provided (scope, criteria, etc.)
- Defining the assessment planning and approach
- Preliminary Review and verification of the Organizations Energy Data
- Onsite assessment for detailed assessment of operating practices and energy use patterns
- Submission of the Final Energy Assessment report



Benefits of Energy Assessment:

- Energy assessments assist industrial companies or facilities in understanding how they use energy enabling them to identify the areas where waste occurs and where opportunities for improvement exist.
- Evaluate the effectiveness of an energy efficiency project or program.
- Improve specific energy consumption at different levels of an organization.

Why choose TUV India?

TUV India has a pool of experienced team of Energy auditors, GHG auditors, Energy managers and field Engineers to conduct Detailed Energy Audit/assessment in all types of industries e.g. Chemical & Petrochemical, Cement, Power, Tyres, Sugar, Paper, Automobile, Textile & Textile Processing, Pesticides, Fertilizer, Paints, Aluminum, Casting Foundry, Steel, Engineering, Ceramic, Synthetic Fibers, Hotel & Commercial Buildings etc.

In addition to the above, our credentials include –

- Wide pool of highly qualified and experienced assessors across India
- Comprehensive and diverse range of value - added services
- Key account management
- One-stop solution for your sustainability requirements

TUV India Private Limited

Registered & Head Office

801, Raheja Plaza-I, LBS Marg, Ghatkopar (W), Mumbai - 400086

T +91 22 664 77000, T 1800 209 0902

E infoindia@tuv-nord.com

W www.tuv-nord.com/in

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Over 1500 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

