

Save Energy

Save Earth

If not you...

WHO?



If not now...

WHEN?

Senergy Consultants Pvt Ltd

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Senergy

Synergy between our proficiency in Conservation of Energy and your expertise in operation & maintenance to SaveENERGY.

- Team of experts headed by a technocrat from IIT - Mumbai
- In the field of Energy Conservation since 1990
- One of the first Encon Consultants to receive ISO-9001 certification
- Customer Base of over 1,250 Organizations
- Over 75% of the business through repeat orders
- Accredited Auditors to carry out all BEE – PAT related activities like M & V, M E A
- Empaneled with Government Agencies
- Provide realistic & practical solutions for conservation of Energy
- Studies ultimately yielded over 300 Crores rupees per year worth of Energy Saving
- Lead Auditor – ISO 50001 Energy Management System

Energy Audit

The objectives of an energy audit are to identify and develop modifications that will reduce the energy use and / or cost of operations. The energy audit covers

- Analysis of current energy consumption and scrutinizing specific energy data
- Energy & mass balance studies
- Performance evaluation of existing energy systems
- Performance study of various mechanical equipments & analysis of energy parameters
- Analysis of distribution system & associated losses
- Effective utilization of energy
- Optimal recovery of waste heat
- Effectiveness of instrumentation & controls
- Capability study & Awareness programs
- Gap Analysis
- Report covering Energy Conservation opportunities with techno-economic analysis

Mandatory Energy Audit

The objective is to conduct energy audit by an accredited energy auditor, in accordance with the BEE Regulations, 2010 and furnish the report meeting all the mandatory requirements as stipulated in the regulations. Along with the standard scope, the audit shall also cover

- Production process description
- Energy & utility system description
- Detail process flow diagram and Energy & Material Balance
- Performance evaluation of major utility and process equipments / systems
- Energy efficiency in utility and process system
- Evaluation of energy management system
- Energy conservations measures & recommendations management system

Monitoring & Verification Audit

The audit shall be carried out as per the Bureau of Energy Efficiency guidelines / requirements and necessary certificates shall be issued for the respective plants. The studies shall cover all the areas as notified by BEE and include

- Verification of the data
- Review of all the activities as required by the B E E notification.
- Verification of Performance Assessment Document
- Preparation of summary of verification process with results
- Issuance of certification - Form B with recommendations for energy saving certificates

Advisory Services for Requirements under PAT (Performance Achieve & Trade)

- Preparation of quarterly & Annual Reports on Energy Performance
- Listing of energy conservation initiative with quantification of the saving
- Comparing the energy saving data with actual reduction in the energy consumption.
- Schedule for fuel analysis and reviewing the reports
- Assistance in filling up the Form A at the end of each year
- Assistance in filling up the profroma to assess status w.r.t target

Energy Conservation & Monitoring Services (1 year or more)

- Walk-through Audit by Experts
- Identification of Potential Saving Areas with physical measurements & analysis
- Technical assistance during implementation
- Periodic visits for measurements, monitoring of major energy consumers
- Validation of actual savings & gains

Energy Management System (ISO – 50001)

- Assistance in Implementation of the system based on ISO – 50001.
- Support for preparation of Manual.
- Conducting studies covering entire Energy Planning activity

Awareness & Training Programs (Duration: 4 to 40 hours)

- Energy Audit
- Energy Management System
- Any Specific Utility or Process Equipments / Systems
- Tailor-made in-house programs to suit specific needs & requirements

Process Audit

- Energy & Material Balance Studies for various processes & operations
- Computation of energy performance of process & operations

Implementation & Monitoring

- Turnkey consultancy for implementation of various suggestions
- Tailor made monitoring & control plan for key energy consumers
- Periodic monitoring of key equipments, operations & processes

Water:

- Water Balance & Consumption Analysis
- Optimization through Reduce, Recycle, Reuse & Rain water harvesting

Achievements at Glance

Type of Industry	Industries	Annual Bill	Annual Savings	
		Creore Rs	Quick	Total
CHEMICAL & DYES SI Group India Pvt Ltd NOCIL Ltd Alkyl Amines Chemicals Ltd	350	510	8.60%	15.20%
PHARMACEUTICAL & BULK DRUGS Wockhardt Ltd Sandoz Pvt Ltd Aarti Drugs Ltd Cipla Ltd	150	80	6.10%	13.80%
CEMENT UltraTech Ltd Ambuja Cement Ltd	10	1200	1.50%	3.20%
PAPER Soma Papers & Industries Ltd Jolly Board Ltd	15	15	8.30%	18.30%
TEXTILE & PROCESSING Century Enka Ltd Welspun Syntel Ltd Grasim Industries Ltd	150	450	5.20%	9.60%
BUILDINGS IIT Mumbai Taj Lands End Gujarat Sachivalaya Complex	150	85	11.40%	22.60%
FOOD & BEVERAGES Nyanza Bottling Ltd – Tanzania Hindustan Lever Ltd Pepsico India Holdings Pvt Ltd	80	20	9.00%	18.50%
CAUSTIC Grasim Industries Ltd Orient Paper & Industries Ltd	15	40	8.30%	19.20%
PLASTICS Jain Irrigation Systems Ltd Time Technoplast Ltd SMEs under UNIDO / AIPMA scheme	150	95	7.10%	18.10%
METALS Hindalco Ltd Hindustan Zinc Ltd Tata Metaliks Ltd Jindal Saw Ltd	120	750	3.50%	7.50%
POWER PLANT Hindustan Zinc Ltd Tata Power Ltd	30	3700	1.50%	2.60%
GENERAL & OTHERS HEG Ltd Sterlite Technologies Ltd Godrej Consumer Products Ltd	280	355	7.40%	16.50%
Total	1500	7300	3.27%	6.60%

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Helping You to Conserve Energy