

**Save Energy**

**If not you...  
WHO?**



**Save Earth**



**If not now...  
WHEN?**

Senergy Consultants Pvt Ltd

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# *Senergy*

*an ISO 9001 – 2008 Certified Company*

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 800 companies
- Over 75% of the business through repeat orders
- Empanelled with Government Agencies
- Provide realistic & practical solutions for conservation of Energy
- Contributes over 180 Crores rupees per year, towards Conservation of Energy
- 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
- Presentation of engineering and economic analysis

## **Sustainability**

The concept of using natural resources to meet the needs of the present without compromising the needs of future generations.

- Collection & monitoring of baseline data on service inputs and outputs.
- Prepare & analyse Key Environmental Performance Indicators
- Identify environmental impacts & aspects arising from production & allied activities.
- Identifying tangible savings in resource use and operating costs
- Develop recommendations and a monitoring framework that assists in reducing environmental Impact and better manages sustainability issues

## **Corporate Social Responsibility**

Assist in successful execution & demonstration of projects involving

- Renewable Energy Appliances & Systems
- Watershed Management
- Waste Management

## **Energy Management System (ISO – 50001)**

- Assistance in Implementation & Monitoring of the system based on ISO – 50001.
- Support for preparation of Core & Secondary Manual, Standard Operating Procedures and
- Awareness & Training Programs
- Idea Generation through Brainstorming Sessions, Suggestion Scheme
- Conducting studies covering entire Energy Planning activity

## **Environmental Management System (ISO – 14000)**

- Assistance in Implementation & Monitoring of the system based on ISO – 14000.
- Awareness & Training Programs
- Idea Generation through Brainstorming Sessions, Suggestion Scheme
- Conducting studies & identifying improvement areas

## **Occupational Health & Safety Management Systems (OHSAS – 18001)**

- Assistance in Implementation & Monitoring of the system based on OHSAS – 18001.
- Awareness & Training Programs
- Plant Survey & Analysis

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

- Energy Management System & Energy Audit
- Effective use of Energy Audit Instrumentation
- Proficient Operation & Maintenance of Equipments & Systems
- Environmental Management System
- 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

## **Renewal Energy:**

- Solar Thermal & Photovoltaic
- Bio-methanation of organic industrial waste
- Wind / photovoltaic system

## **Water:**

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

## Achievements at Glance

Type of Industry	Industries covered	Annual Bill	Annual Savings	
		Creore Rs	Quick	Total
<b>CHEMICAL</b> NOCIL Ltd Vinati Organics Ltd Alkyl Amines Chemicals Ltd	<b>200</b>	<b>150</b>	<b>8.60%</b>	<b>15.20%</b>
<b>PHARMACEUTICAL</b> Wockhardt Ltd USV Ltd Sandoz Pvt Ltd Cipla Ltd	<b>80</b>	<b>70</b>	<b>6.10%</b>	<b>13.80%</b>
<b>DYES &amp; PESTICIDES</b> Pidilite Industries Ltd Phthalo Colours & Chemicals Ltd Aarti Industries Ltd	<b>70</b>	<b>50</b>	<b>6.90%</b>	<b>16.40%</b>
<b>PAPER</b> Soma Papers & Industries Ltd Jolly Board Ltd	<b>15</b>	<b>15</b>	<b>8.30%</b>	<b>18.30%</b>
<b>TEXTILE &amp; PROCESSING</b> Century Enka Ltd Welspun Syntex Ltd Grasim Industries Ltd	<b>90</b>	<b>450</b>	<b>5.20%</b>	<b>9.60%</b>
<b>COMMERCIAL BUILDINGS</b> IIT Mumbai KPIT Cummins Ltd Gujarat Sachivalaya Complex	<b>100</b>	<b>85</b>	<b>11.40%</b>	<b>22.60%</b>
<b>FOOD &amp; BEVERAGES</b> Nyanza Bottling Ltd – Tanzania Hindustan Lever Ltd Pepsico India Holdings Pvt Ltd	<b>60</b>	<b>20</b>	<b>9.00%</b>	<b>18.50%</b>
<b>ENGINEERING</b> Wartsila Industries Ltd Forbes & Company Ltd	<b>120</b>	<b>40</b>	<b>8.30%</b>	<b>19.20%</b>
<b>RUBBER &amp; PLASTIC</b> Jain Irrigation Systems Ltd Time Technoplast Ltd SMEs under UNIDO / AIPMA scheme	<b>60</b>	<b>60</b>	<b>7.10%</b>	<b>18.10%</b>
<b>Ferrous &amp; Non-ferrous Metals</b> Hindustan Zinc Ltd Tata Metaliks Ltd Jindal Saw Ltd	<b>90</b>	<b>500</b>	<b>3.50%</b>	<b>7.50%</b>
<b>Glass</b> Ceylon Glass Company Ltd Asahi India Glass Ltd	<b>5</b>	<b>25</b>	<b>4.50%</b>	<b>9.50%</b>
<b>GENERAL &amp; Others</b> Sterlite Technologies Ltd Hindustan Zinc Ltd – Power Plant Indian Hume Pipes Ltd	<b>110</b>	<b>160</b>	<b>7.40%</b>	<b>16.50%</b>
<b>Total</b>	<b>1000</b>	<b>1565</b>	<b>5.60%</b>	<b>11.40%</b>

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*Helping You to Conserve Energy*