

Role of Information Technology in Implementation of Energy conservation act

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Bureau of Energy Efficiency (BEE), a Statutory Body under Ministry of Power, Govt. of India, in coordination with Indo-German Energy Programme (IGEN), sponsored by German Technical Cooperation (GTZ), is institutionalizing energy efficiency services; promote energy efficiency delivery mechanisms; and improvement of energy efficiency in all sectors of the economy in India. The Energy Conservation Act, 2001 to be implemented by BEE envisages creation of cadre of professionally qualified energy managers (EM) and energy auditors (EA) with expertise in energy management.

It is very important to create a platform for communication with all the stake holders including energy managers and energy auditors, providing two way communications with industry members. It was therefore decided to develop a web site www.energymanagertraining.com website, aimed at providing mandatory information related to energy management. Information related to importance of energy audits and roles & responsibilities of energy manager / energy auditor. Provide software support to different sectors related with energy management. It was decided to develop a website with major features:

- The website, to be user friendly, allowing the user to extract the information to any level.
- Allow search, industry wise, topic wise, author wise etc.
- Provide technical informative data for the benefit of users
- Keep all-important information about registered users.
- Information of industry specialist, technical paper writer, energy managers, energy auditors, energy audit firms, Equipment manufacturers, Energy management related software providers.
- Provide links to the relevant energy management web site information.
- Industry users groups to be formed to address industry specific problems.
- Keep database of accredited energy manager, energy auditors on successful passing of the national level examination.
- Maintain and upkeep the website on regular basis, system integration, database populations, modification of software and ensure the functionality, quality of the website. Improve the website in terms of content and quality based on regular users feedback.
- Interact with all stakeholders and help them in providing useful information related to promotion of energy efficiency, technical paper, training material, equipment manufacturer information, energy auditor information, announcement and news, and also, promotion of the website.

INTRODUCTION

The www.energymanagertraining.com website has been developed, aimed at providing mandatory information related to the importance of roles & responsibilities of energy manager / energy auditor and energy audits. All

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the information which may be required by industry member, for energy management and implementation of EC Act. Registration to this website is FREE. The website www.energymanagertraining.com is supporting BEE by providing related information for implementation on EC Act and is being viewed by a large section of Indian Industry members of all sectors. The website has a large data base of more than 16,000 registered

users, which consists of industry specialists, energy managers, energy auditors, energy audit firms, equipment manufacturers, professors & students from educational institutes etc.

Major information on website

- Energy Conservation Act, 2001
- Provide a platform for energy managers for interaction
- Create sector wise user group to

Bringing Knowledge to People...

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- Specialists >
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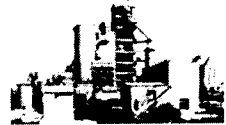
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Winners of exam feedbacks for 3rd National Certification Examination for EM / EA exam 2006



Promoting Efficient use of Energy



gtz

Indo - German Energy Programme (IGEN) in cooperation with Bureau of Energy Efficiency (BEE) under Ministry of Power



Useful Links

- NECA 2005
- NCEC 2006
- S & L
- SDA
- Invitations
- Event updates
- Jobs
- Open resumes
- Tenders
- Awards/Prizes
- Performance
- Banners
- Feedback
- EMT Logo

[Archive](#)

IGEN Requirement of 10 moderators to assist participants in the preparation of the national exam for certified energy managers at

Why Energy Managers ?

It all starts or falls with energy managers ! No energy manager in a firm means no voice to invest in energy efficiency. No voice implies no annual budget for energy conservation measures. Having no annual budget means no energy efficiency measures are implemented. No implementation results in less profit and no energy cost reduction.

Certification

For certification of Energy Managers and Energy Auditors, BEE has conducted three National Level Examinations first in May 2004, second in May, 2005, third in April, 2006.

Feedback and result view as under

Exam Feedback	2006	2005	2004
Energy Managers	2005	2004	
Energy Auditors	2005	2004	

The Energy Conservation Act 2001

The Energy Conservation Act implemented by the Bureau of Energy Efficiency (BEE), a statutory body under Government of India, envisages creation of cadre of professionally qualified energy managers and auditors with expertise in energy management, project management, financing and implementation of energy efficiency projects, as well as policy analysis. It is a Law to force firms to make more profit and not an Act to control and monitor energy consumption of industry.

Accredited Energy Auditors

List of Energy Auditing Agencies whose names have been RECOMMENDED for Accreditation by the Accreditation Committee and approved by the Executive Committee of Bureau of Energy Efficiency. (List not yet notified by the Central Government. It can be used on voluntary basis & not for fulfilling any mandatory provisions under the EC Act, 2001) - [Details](#)

Incentive Scheme to encourage Energy Conservation

The Honourable President of India, Dr. APJ Abdul Kalam, during his Address delivered on the 'National Energy Conservation Day', 14th December 2005 has advised the following i) Companies may introduce appropriate incentive systems to encourage the employees to conserve energy, ii) Creating an idea bank in which employees can provide innovative solutions for energy efficiency operations. There must be a system of analysis of ideas for implementing practical ideas on the shop floor and suitable reward. - [Schemes](#)

Interesting download

[Website update - May 2006](#)

BEE - IGEN requirement

Requirement of 10 moderators to assist participants for preparation of the national exam for certified energy managers and energy auditors - [Details](#) ; form ; send to : akumar@energymanagertaining.com

Please send in your filled in form to:

Mr. Ashok Kumar, Advisor - Information,
Indo German Energy Programme,
Hall No. 4, 2nd Floor, NBCC Tower,
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Save Energy

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- initiate focused interaction, there is a sector group for pulp and paper specialist
- Energy manager/ energy auditor accreditation examination, course material
- Energy audit; energy audit guidelines; energy audit reports
- Invitations to submit technical papers for issues & quizzes and award the winners
- Awarding the industry for their best practices on energy conservation annually
- State wise energy managers and energy auditors, Industry specialists
- Industry related technical reading
- Equipment manufacturers details
- Events, Announcements
- Industry overview / process
- Equipment design / types, Equipment tips
- Energy management related software
- Tenders, Banners / slogans

- Dr. Kaupp's corner: a thought provocative discussion forum.

Major Sections:

- Learning
- Specialists
- Equipments
- Events

Learning:

This section contains various energy management related information for beginners and specialists. The Energy Management section having the details of basic energy management information, EC Act 2001 - overview

Importance of Energy management cell, Accreditation procedure to become energy manager and energy auditors, Roles & responsibilities of energy manager and energy auditor, Industry overview/process, equipment design/types, Equipment tips, course material Energy audit guidelines, Energy audit reports, Technical papers, technical publications, Case Studies / Best Practices.

Specialists:

Information about energy managers, energy auditors, Industry specialists, consultants, temporarily accredited energy audit firms, industry associations and state level designated agencies. Details of certified energy managers/ energy auditors.

Equipments:

Major energy consuming equipments - electrical systems, boilers, steam systems, furnaces, insulation & refractors, electric motors, compressors, compressed air systems, HVAC and refrigeration, cooling towers, fans & pumps, lighting systems, diesel generating systems, maintenance tips, O&M manuals, dos & don'ts and much more. The equipment manufacturer/ Suppliers contact details.

Events:

All important energy management events such as awarding industry for their best practices, celebrations of National Energy Conservation Day, energy management promotional activities, awareness training programs/ workshops/ seminars.

Promotional Activities:

- Energy efficiency equipment technology
- Energy audit equipments
- Specialist job requirement
- Energy management related tenders
- Website links for strategic partners

Registration to the website is FREE

Benefits to registered members:

Registered member will be entitled to the following:

- Complete access to the website
- Recent development in energy management
- Receive regular updates on the website
- View the technical problems posted by the industry members along with the answers from the specialists. Any registered member can post technical queries on the website.
- Upload profile on the website

Support to Pulp and Paper Sector:

Website provides technical support to pulp and paper sector. There are more than 30 technical articles related to this sector for benefit of the members. A large number of success stories of the paper mills are available. Industry user group for paper mill is very active on this website and the technical queries asked by users are answered by specialists. A large number of industry specialists from this sector are member

of this website.

Software for Energy consumption assessment in Pulp & Paper mills

Software has been designed and developed to assess the energy consumption level of a specific paper mill and store in data base for analysis. This software is available on the website and allows the users to provide energy consumption data. Based on the data, software provides the classification and other details. The data stored is kept confidential through user ID and Password.

Software objectives:

- Assess the energy consumption (Thermal, Electrical and Water) for the mills.
- Generate identification, code for proper classification of mills for comparative analysis.
- Compare the mills energy consumption with the Industry average
- Self assessment for improvements in the mill's energy consumption.
- Classification of mills into gold/ silver/ bronze/ tin

RESULT AND DISCUSSION

The website has now become very popular among industry members. Based on the feedback from users, the site is updated and improved, technical information is being added. The users also are helping and providing technical information.

CONCLUSION

The website should be promoted at each energy management forum. Industry members should participate in technical discussions, contribute technical reading, case studies and success stories on energy management for uploading on the website.