



Power and Energy Management in Industrial Utilities **Energy Auditing and Power saving Management**

(6-8 June at Kolkata, 24-26 June at Hyderabad, 25-27 July Nagpur)

Introduction:

Electrical utilities such as Pumps, Fans, Blowers, Compressors, Cooling towers, Lighting systems etc are major consumer of electrical energy in any industry .

Government of India under "Urza daksh Bharat, Unnat bharat plan" has set a 11 point action plan to reduce energy intensity between 2016 and 2019 by 7% and triple the energy savings .

As per study report by **Bureau of energy efficiency**, GOI, by there is a huge potential of saving by 20-30% energy by implementing suitable measures. For example just by maintaining a optimum L/G ratio the energy consumption in cooling tower can be reduced by 15-20% .

The aim of subject training is to provide basic hands ON training to participants on various means and measures for energy saving in various electrical utilities .

3 days duration of the training comprising of audio visual training to participants on energy efficiency of various electrical utilities eg Compressors, Cooling towers, pumping systems etc . There shall also be a group activity to carry out energy audit, with the aim to find out energy leakages, of plant equipments followed by discussions . Detailed contents to be covered are mentioned below. Where as we are always open to cover any of the relevant topic raised by participant during training program for the benefit of individual and organization There shall also be a group activity to carry out energy audit, with the aim to find out energy leakages, of plant equipments followed by discussions .

Objective:

To impart knowledge about basic concepts and practical approach for improving energy efficiency of electrical utilities viz Compressors, Cooling towers, Fans, Blowers, Refrigeration and air conditioning systems, Power distribution system etc.

Learning outcome:

Trainees would be able to identify energy wastages occurring in electrical utilities and chalk out and implement action plans for reducing the same, thus optimizing the energy efficiency of the system.



Benefit to Organisation:

- 3.2.1 Reduced operating cost due to improved energy efficiency.
- 3.2.2 Improved health of the equipment.

Deliverables of the program:

- 1. To impart basic knowledge about energy efficiency of various electrical utilities and methods to conduct efficiency study.
- 2. To provide **HANDS ON** training in conducting energy efficiency study for electrical utilities in plant .
- 3. To demonstrate through actual site measurements the saving potential and actual savings achieved by implementing suitable measures .

Target Participants:

Graduate engineer trainees , engineers , middle management level professionals with electrical and mechanical background .

Training Contents/Delivery schedule:

- 1. Introduction and Objective Setting of 3 Days program. Expectation discussion.
- 2. Pre Test.
- 3. Energy Management and Audit Action planning- Calculation and Energy saving.
- 4. Energy efficiency of electrical power distribution systems, Fans, Motors & Transformer, Cables.
- 5. Energy efficiency of Cooling towers, Pumping systems, blowers & Compressors.
- 6. Energy efficiency of Air conditioning and refrigeration systems.
- 7. Plant illumination or lightening systems.
- 8. Power factor improvement techniques and applicable approach.
- 9. Approach towards conducting energy efficiency study of equipments.
- 10. Many Case studies.
- 11. Post Test.
- 12. Feedback, Assessment and Certificate distribution.



Centre For Industrial Solutions and Advanced Training

AN ISO 9001:2015 CERTIFIED

(Technical- Electrical/Mechanical/Automation/Chemical, Behavioral & Soft Skill, Safety, Business Excellence, Safety & Energy Audit)

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About CISAT:

Centre For Industrial Solution and Advanced Training is an ISO 9001:2015 certified Global Training Provider Company managed by professionals with rich Industry and professional training experience. Company involves in professional trainings and been providing training on various topics of Industry interest through various experts associated. More details are available on www.cisat.co.in.

For Registration please do contact to/We do prefer on line Registration through our web www.cisat.co.in.

1. Vikas +91-8669546332; 7709012815; vikas@cisat.co.in; cisat.nagpur@gmail.com;

Registration Details:

Dates of the program: (6-8 June at Kolkata, 24-26 June at Hyderabad, 25-27 July at Nagpur)

Nonresidential Participation fees: INR 27000/participant (Excluding GST@18%);

Payment: ECS/NEFT/DD in favor of "**Centre for Industrial Solutions and Advanced Training**" Bank: IDBI, Sadar, Nagpur, Maharashtra 440018, India; Account No: **0509 1020 0000 3353**; IFSC Code: IBKL0000648; MICR Code 440259006; Swift Code IBKLINBBNGP.

Venue: To be informed post nominations confirmation.

Contact for any In-house Training/Webinar or other nominations at your plant or location.

Looking forward to further communication from you soon.

With Best Regards and Thanks,

Mrs. Rupali (Contact: +91-7709012815)

Director Business Development

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TERMS & CONDITIONS FOR TRAINING/Workshop:

- All training courses will require a minimum of 8 participants for confirmation.
- In the event of cancellation of a course, we will endeavour to inform all candidates a week before the course is due to take place. In such case all course fees paid will be reimbursed in full or the payment will be transferred in full to another course.
- CISAT shall not accept liability for any consequential loss and shall have no liability to reimburse any other costs that may have been incurred, including transport costs, accommodation etc.
- Special arrangements can be made for group bookings.
- Certificate of participation will be issued when payment has been received in full.

CONTACT FOR ANY IN-HOUSE TRAINING PROGRAM AT YOUR PLANT OR LOCATION.

Branch Office: 503, Sai Sankul, Swamy Colony, Aakar Nagar, Katol Road, Nagpur-440013, MS, India.

Web: www.cisat.co.in; Email: cisat.nagpur@gmail.com ; Contact: +91- 7709012815 (Branches: Thane/Pune/Nagpur/Bhilai/Wardha)

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