



## **“Energy Efficiency and Power Saving in Electrical Utilities”**

**(6-8 July 2017 and 9-11 October 2017 at Nagpur)**

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 bharaat 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 .

The complete training shall be comprehensive training for 3 days duration 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 .

### **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/Delivery schedule:

Day	Topics to be covered
1	Pre test of the trainees .
1	Energy efficiency of electrical power distribution systems , Compressors , Cooling towers .
2	Energy efficiency of Pumping systems ,Fans and blowers .
3	Energy efficiency of Air conditioning and refrigeration systems and plant illumination systems
3	Approach towards conducting energy efficiency study of equipments .
3	Post training test .



## Centre For Industrial Solution 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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### Registration:

**Dates of the program:** 6-8 July 2017 & 9-11 October 2017 at Nagpur.

**Participation fees:** Rs. 20000/- per delegate (Excluding ST, Training program includes training material hard copies, Tea, Lunch & snack, excluding lodging and Boarding)

**Payment:** ECS/NEFT/DD in favor of “Centre for Industrial Solution and Advanced Training” Payable at Nagpur, Maharashtra, India. Account No: 0509102000003353  
Bank: IDBI, Wardha- 442001, MS, India; IFSC Code: IBKL0000509; Swift Code  
IBKLINBB007; MICR Code 000259000.

**Venue:** KEC International Training Centre, Butibori, Nagpur, MH (18KM from Airport)

**For Registration, please do contact to,**

*We prefer on line Registration through our web [www.cisat.co.in](http://www.cisat.co.in).*

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Contact for any In-house Training Program at your plant or location.

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