

## **Webinar Title: Energy Conservation in Thermal and Electrical Utilities**

**Registration Fee (including GST): - Rs 99/-**

### **About Webinar: -**

**Reducing energy demand through energy efficiency measures and conservation is the cheapest and most effective way for enhancing energy security of any country. Energy efficiency is the most influential means of achieving sustainable energy future. The energy sources used in industries include both thermal and electrical energy. Energy Efficiency can be termed as the ratio of useful energy output to the total energy input. Equipment's are said to be efficient if they are utilizing maximum amount of input energy.**

**Electrical energy efficiency is understood as the reduction in power and energy demands from the electrical system without affecting the normal activities carried out in buildings, industrial plants or any other transformation process.**

**Thermal energy is generated from the combustion of different types of fuels. Thermal energy used for heating and cooling represents a significant proportion of total energy use in industrial processes and is largely supplied by fossil fuels.**

**Mechanical operations primarily powered by electricity also consume a large amount of energy. There is a need to adopt energy conservation measures and use of energy efficiency in thermal and electrical utilities.**

**In this webinar we will discuss energy conservation measures in boilers, furnaces, steam turbines, waste heat recovery, heat exchangers in thermal utility and electrical system, motors, compressors, fans, pumping systems, lighting system in electrical utility. It will give the insights of energy efficiency interventions, examples and case study for enhancing energy performance for improving productivity of industry and enterprises.**

## **Webinar Coverage: -**

- **Importance of Energy Conservation in industry.**
- **Need to adopt energy efficiency in thermal and electrical utilities.**
- **Measures for achieving higher Energy efficiencies in Thermal utilities**
- **Measures for achieving higher Energy efficiencies in Electrical utilities**
- **Boilers, furnaces, steam turbines, heat exchangers etc. in thermal.**
- **Electrical systems, motors, compressors, fans, pumps, lighting etc. in electrical.**
- **Best practices of energy conservation in these areas.**
- **Thermal Energy Audit**
- **Electrical Energy Audit**
- **Implementation of waste heat recovery system**
- **Thermal and electrical energy efficiency in buildings**
- **Important Energy Conservation Tips**

**Speaker Profile (Brief One Para & Photograph): - Er. Balkar Singh is an Advisor (Energy Efficiency), having Professional Experience more than 32-year (Technical, Managerial and Academic) in the field of Civil Engineering, Renewable Energy, Energy Efficiency, Construction Technology & Management, Green Building, ECBCs, Energy Auditing. He is BEE certified Energy Auditor. He is Former Joint Director, Punjab Energy Development Agency, Chandigarh. Recipient of State Award “Punjab Govt. Parman Patra” for his exemplary services rendered in the field of Science and Technology. He has been honoured with “Distinguished IET Graduate Engineer” Award by the Institution of Engineers (India). He is Honorary Co-Chairman, Green & Eco-friendly Movement Punjab Chapter. He has published 15 national and international research papers and made more than 110 presentation on green building and energy efficiency.**



**Register to learn (Key Learning's' in bullet points):**

- **Understanding the role of thermal and electrical utilities in industry**
- **Measures for achieving higher Energy efficiencies in Thermal utilities**
- **Measures for achieving higher Energy efficiencies in Electrical utilities**
- **Energy efficient motors, compressors, fans and pumps.**
- **Thermal and electrical efficiency in buildings.**
- **Learning through case studies on energy conservation.**
- **Energy conservation tips for thermal and electrical systems.**

**Thanks and regards**

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