

**Webinar Title: ENERGY CONSERVATION IN ELECTRICAL UTILITIES & ELECTRICAL SYSTEM FOR REDUCING POWER & ENERGY DEMANDS**

**Registration Fee (including GST): - Rs 899/- (Rupees Eight Hundred Ninety-Nine Only) per participant inclusive of GST**

**Expert Speaker (Name/ Designation) – DR. BALKAR SINGH, INDEPENDENT ADVISOR (ENERGY EFFICIENCY) AND FORMER JOINT DIRECTOR, PUNJAB ENERGY DEVELOPMENT AGENCY, CHANDIGARH**

**Webinar Date: 21.08.2021 Duration: 3.30 pm to 5.00 pm (one hour thirty minutes)**

**About Webinar (Brief One para): -**

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.

The efficiency of a system in electronics and electrical engineering is defined as useful power output divided by the total electrical power consumed .

$$\text{Efficiency} = \frac{\text{Useful power output}}{\text{Total power input}}$$

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.

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 electrical utilities and electrical systems.

The webinar aims at discussing energy conservation measures in electrical system, motors, compressors, fans, pumping systems, lighting system and other key electrical equipment's and utilities for reduction in power consumption. 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 electrical utilities.
- Measures for achieving higher Energy efficiencies in Electrical utilities
- **Methods of controlling electrical equipment**
- **Understanding Power Factor**
- **Prevention of electricity loss due to electric resistance**
- **Electrical loss occurring in various distribution lines**
- Best practices of energy savings in electrical systems, motors, compressors, fans, pumps, lighting, air conditioning facilities etc
- Effective lighting system
- Electrical Energy Audit
- Electrical energy efficiency in buildings
- Energy conservation guidelines for industries

**Speaker Profile** - Dr. 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):**

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Thanks, and regards

**S.P.Singh**

**Regional Director**

**National Productivity Council, Chandigarh**

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