

| Webinar Fee:- 400/- | **Webinar Date**: 24/09/2020 | **Duration**: 15:00 Hrs to 17:00 Hrs |

Expert Speaker: Dr. J. Nagesh Kumar, Director (CEEP) & Former Director (Energy Management), NPC

About Webinar:

Heating Ventilation and Air Conditioning (HVAC) is generally responsible for a significant proportion of total energy consumption of the system during an energy audit. A typical system accounts for approximately 40% of total commercial building consumption. In manufacturing sectors, the proportion ranges more than 50% in some of the industries such as Pharma, Food & Dairy, FMCG, Chemicals etc.

A typical HVAC system consists of the following components:

Central chilled water plant.
Chiller water cooling system.
Chilled water circulation system.
Air handling and circulation system (heating/cooling).

HVAC system includes Air Handling Unit (AHU) which comprises dampers, supply and exhaust fans, filters, humidifiers, dehumidifiers, heating and cooling coils, ducts, and various sensors.

HVAC loads vary at different times through the day and in different seasons throughout the year. In India, most HVAC systems are designed to handle the maximum cooling load required by the building/process. This maximum only occurs for a short period in the year and, for most of the time, the system is faced with a load below the maximum, and operates below optimum capacity.

Substantial savings can be achieved by optimising the heating, ventilation and air-conditioning (HVAC) system and by upgrading plant with energy efficient technology in case of out-dated system.

The webinar will examine various HVAC energy use within facilities, summarize best practices and examine potential savings and return on investment with practical case studies, followed by Q & A session to ask questions, clarify doubts from the expert.

It will add strength to the existing knowledge of energy engineers, auditors and managers involved in HVAC & associated systems and implement energy saving measures in their organizations.

Learning objectives:

- Learn key performance parameters of HVAC system and components.
- Understand individual situation (case) of how to go about achieving energy conservation measures
- Find out when energy efficient utilities pay for themselves!
- On attending the webinar, you can plan implementing these technologies/concepts in your organization to use energy efficiently and thereby help your company gain competitive edge.

Speaker Profile

Dr. J. Nagesh Kumar is a Mechanical Engineer with post-graduation in Energy Management from NPC. He also holds a Doctorate in Energy Efficiency in the field of Gas Turbines. He had been in the field of Energy Efficiency for more than three decades with National Productivity Council during which he was cultivated to use productivity practices leading to energy efficiency. He is now the Director of Centre for Energy, Environment and Productivity (CEEP). He is one of the authors for the Guide Books on Energy Efficiency for the National Certification Examination for Energy Managers and Energy Auditors.



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Contact Details: Sh. Varun J.P., Asstt. Director, AIP-NPC,

Email:-varun.jaganathan@npcindia.gov.in; Mobile: 9940451127

Thanks & Regards
Dr. Ambedkar Institute of Productivity (AIP)
NPC, Chennai