



AMERICAN UNIVERSITY OF ARMENIA
College of Engineering

Office of the Dean

PLANT FACILITIES PLANNING FOR ENERGY SAVING

SEMINAR OBJECTIVE

Energy is crucial to the working of any manufacturing facility. Energy is used by manufacturing plants for providing light, heat, mechanical work for processing and for providing industrial support and building systems. However, energy is a commodity with a market price. Energy costs are manufacturing costs. Various methods of evaluating and choosing energy systems often reveal opportunities for reducing energy use of processing equipment plus the heating, air conditioning and industrial support systems. Facilities planning can reduce energy use and costs by providing facilities that use less energy and by reclaiming energy from manufacturing processes.

The objective of this seminar is to address the key issues surrounding plant facilities planning for energy saving. The seminar proposes a methodology to determine the accurate requirements for overhaul and redesign of existing facilities for better energy use, and at the same time shows a stepwise approach to modular changes that can be made to existing facilities for efficient energy use. The seminar involves the use of computer and a series of software and other expert systems tools to determine scientifically the rules for better facilities design for energy efficiency. Also, the key issues related to energy : energy management, energy analysis, energy conservation, co-generation and environmental factors are discussed with respect to facilities planning. The seminar would also allow participants to work with the models developed from various industry over the years with respect to facilities planning and energy considerations. Computerized facilities layout and optimizing area allocation algorithms would allow the participants to solve a host of complicated problems in a relative short interval of time.

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ABOUT THE SPEAKER

Abhay Trivedi is a Professor in the College of Engineering at Southern Illinois University at Carbondale. He is an active consultant in the areas of process planning, scheduling, facilities planning and design, simulation and total quality management. He has consulted for many of the Fortune 500 companies to include Olin, AT&T, Caterpillar, IBM, Walmart and Dell computers. He has presented seminars in the area of automation in countries such as Singapore, Hongkong, India and the U.S.A. He has been named outstanding teacher at Southern Illinois University twice in his seven year tenure. He was recently honored with SME's "Educator of the Year" award. He is the author of a number of technical papers and reports.

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KEY HIGHLIGHTS

The seminar will be taught in a total of twelve sessions, each session will cover detailed discussion of topics related to Energy and Facilities Planning and would allow participants to actively get involved in the learning process. The key topics covered in the seminar would include:

- Understanding the Facilities Design Function
- Evaluation and Implementation of Plant Facilities
- Facilities Planning Components
- Optimizing Area Allocation
- Energy Management
- Energy Analysis of Plant Facilities
- Energy Conservation
- Co-Generation
- Computerized Facilities Layout
- Expert Systems for Facilities Planning
- Environmental Concerns for Manufacturing

WHO SHOULD ATTEND ?

This seminar will cover topics of interest for a wide variety of people from different fields to include:

- Industrial Engineers
- Manufacturing Engineers
- Production Planners
- Department of Energy
- Department of Industry
- Department of Civil and Environmental Engineering
- Education Professionals
- Managers
- Regulatory Agencies
- Hospitals