



# Energy Management and Audit

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# Different forms of energy

- Renewable and Non-renewable
- Conventional and Non-Conventional
- Primary and Secondary

# What is energy management?

- Energy management embodies engineering, design, applications , utilisation and to some extent the operation and maintenance of electric power systems to provide dor the optimal use of electrical energy.

# Fields and Tools involved in EM

- Engineering
- Management
- Economics
- Financial Analyst
- Environmental Engineering
- Meters and Measurement
- Demand and Energy Limiters
- Highly efficient energy devices
- Control systems

# Types of Energy Applications

- Space Conditioning
- Boiler Fuel
- Direct process heat
- Feedstock
- Lighting
- Mechanical Drive

# Energy Saving Methods

- Housekeeping Measures
- Equipment and Process Modifications
- Better Utilisation of Equipment
- Reduction of losses in building shell

# Organizing EM Program

- Obtain top management energy commitment
- Obtain people commitment
- Set up a communication channel
- Change or modify organization to give authority and responsibility
- Monitor and control the program

# Employees' Participation in EM

- Why employees' are required?
- Tasks of Employees'
- Relationship between employees' participation and energy management program