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UNIT I

Chapter 1 : Energy Conservation on Basics

1-1 to 1-11

Syllabus : Energy Scenario : Primary and Secondary Energy, Energy demand and supply, National scenario, Energy conservation and Energy audit; concepts and difference, Energy conservation Act 2001; relevant clauses of energy conservation. BEE and its Roles, MEDA and its Roles, Star Labelling : Need and its benefits

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Energy Conservation on Basics

UNIT I

Syllabus :

- 1.1 Energy Scenario : Primary and Secondary Energy, Energy demand and supply, National scenario.
- 1.2 Energy conservation and Energy audit; concepts and difference
- 1.3 Energy conservation Act 2001; relevant clauses of energy conservation
- 1.4 BEE and its Roles
- 1.5 MEDA and its Roles
- 1.6 Star Labelling : Need and its benefits

Introduction

- Energy has been playing a precious role in the evolution, progress and persistence of mankind. Developments in the social and economic areas of a nation are critically influenced by the energy status.
- Energy is also termed as a 'strategic commodity'. As the name suggests, the energy utilization must be planned and calculated.
- Any insecurity related to the supply of energy can jeopardise economic and social developments. Such effects are prominent in developing countries like India.
- The energy sector of India is growing at a very high rate to satisfy the growing needs of a developing nation.
- There have been various reforms in the energy sector particularly in the areas like resource exploration and exploitation as well as capacity addition.
- In spite of such a rapid growth and reform in energy sector the energy supply always fails to satisfy the growing needs of such a rapidly growing economy.
- The shortfall of energy is overcome by a very expensive way of energy imports.
- Therefore, need of energy conservation is consistently demanding attention to reduce energy requirement.
- With the increasing consumption of energy Demand side management by improvement in efficiency is also gaining importance in the country.
- Estimated energy conservation potential in India is near about ~ 23% which is compelling to take various initiatives in order to explore this potential.
- This unit takes a review of present energy scenario, Need of energy conservation and Several initiatives as well as various policies and Programs undertaken by Indian Government to enhance energy efficiency of the nation in order to make energy sector economically as well as environmentally sustainable.