



2014-10-06 1330 - 1430 HOURS

Module 1

Modern Energy Management Systems

1 1

Learning Objectives

- Concept of management systems
- Energy management systems - the scientific and preventive approaches

2

What is the Challenge ?

- Ever increasing cost of energy
 - Foreign currency
- Lack of awareness on energy efficiency
 - Eg Power factor, leakages, inefficient lighting
 - Human behaviour
- Global warming/environmental impact
- Competitive business environment
 - Lean operation
- Government is acting
- Question on nuclear after Fukushima 2011

3

What is an EnMS ?

- Capitalizes on positive experience of ISO 9000 (based on Deming PDCA cycle)
- A systematic and structural approach in the effective operation and management of significant energy use
- Comply with relevant legal requirements and fulfill expectations of interested parties
- Supports organization to demonstrate sound energy management in an increasingly stringent context
- Continual improvement

4

Purpose of ISO 50001

- Enables organization to follow a systematic approach in achieving continual improvement in energy performance, including energy efficiency, energy use and consumption
- Specifies requirements applicable to energy use and consumption
- Offers assurance on energy performance and compliance with legal requirements

5

Benefits

- Management platform (facilitate control)
 - Get prepared for legal requirements
 - Control and improvement
 - Integration with other disciplines
- Communications
 - Public image (sustainability reporting)
- Financial
 - Reduced use of energy and carbon emission

6




