Lesson 3
Developing Energy Management Programs

QEM 570
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Learning Objectives

After this presentation you will be able to:

- Identify corporate structures and characteristics that promote successful energy management programs
- List typical functions of an energy manager
- Identify characteristics of effective corporate energy policies
- Recognize key factors in energy auditing and program planning
Developing an Energy Program

Key factor to success: Top management support

Position of top energy manager position important to program success

Must be high enough to:
- Secure access to financial and personnel resources
- Have knowledge of company events and industry strategic trends

Developing an Energy Program
Corporate Structures

- President
  - VP
    - Coordinator
    - Coordinator
    - Coordinator
  - VP
  - VP
- Energy Manager
- Employees
Functions of Energy Manager

的有效政策包括权限：

- 制定业务计划
- 定位设施
- 选择生产设备
- 购买计量和测量设备
- 制定报告和培训

计划特定的审核类型：

- 例如电机、压缩机、闪电

根据需要匹配培训

- 适合于公司需求。简单是更好的

搜集来自所有级别的信息。分组想法

Functions of Energy Manager

- 设置计划和政策
- 建立能源会计和基准
- 与外部协助
- 确定未来的能源需求
- 筹集项目资金
- 制定并实施能源系统建议
- 评估计划的有效性
Promoting Successful Programs

Key factor: Employee Ownership
Enlist input from all organizational levels

Tips for success:

**Have/Work Plans**
- Time events to keep program alive

**Share Energy Savings Ideas**
- Vest others in program success

**Be Aggressive**
- Energy team most knowledgeable
- Make efficiency and energy issues part of management decisions

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Promoting Successful Programs

Tips for success:

**Use Proven Technologies**
- Failure of technology could stop program
- Keep solutions simple

**Cultivate Interested Parties and Departments**
- Report progress up corporate ladder
- Reward participation

**Recognize All That Contribute**
- Give credit where credit is due
- Acknowledge all participation and ideas
Early Project Selection

Select projects with low impact on personnel (HVAC, lightning) fast payback, high probability for success

Examples

Fix Leaks

- Boiler
  - Stream leaks
- Compressor
  - Air leaks
- Building Envelope
  - Cold air
  - Hot air

Add Insulation

- Building Envelope
  - Heat flow
  - Insulation
Early Project Selection

Examples

Install high efficiency motors

Efficiency > 95% for large machines

END LESSON 3