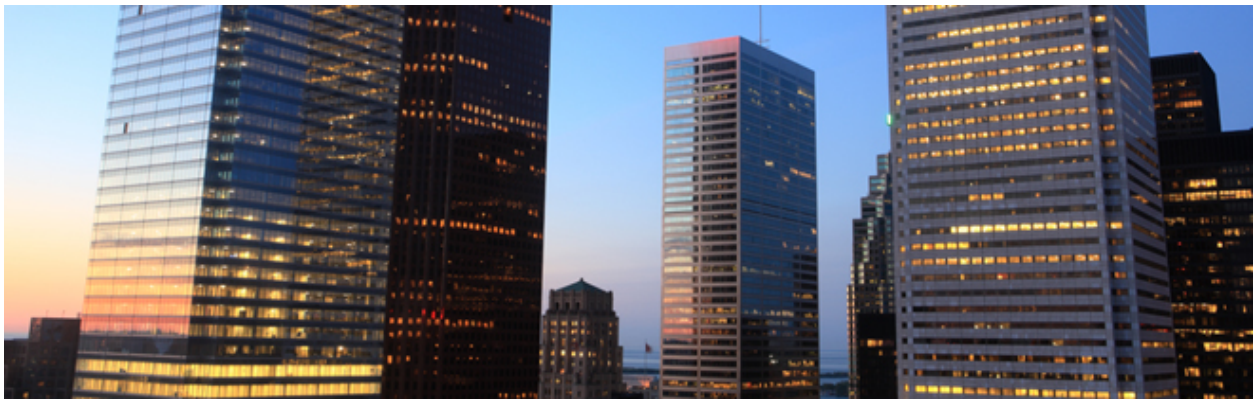




saveONenergy^{ON}



Introduction to Energy Management



Seneca

Module 1 – Introduction to Energy Management

Table of Contents

1. Learning Objectives.....	Page 2
2. Defining Energy Management	Page 3
3. Motivation and Context for Energy Management.....	Page 17
a. SaveONenergy Commercial, Institutional and Industrial Programs	Page 26
b. Federal Government Initiatives	Page 46
4. Organizational Aspects of Energy Management.....	Page 50
5. Energy Management System and ISO 50001.....	Page 75
6. Developing an Energy Management Policy	Page 87
7. Appendices	



Module 1

Introduction to Energy Management

Energy Management Systems

Program Learning Objectives



- Build energy management capacity in Ontario
- Develop the basic skill-set and knowledge required for new entrants and junior/intermediate-level practitioners in the energy management field.
- Provide a broad perspective on energy management practice, including
 - the technical principles and methods and technologies that enable energy efficiency improvement
 - energy auditing methods
 - energy information management methods
 - financial analysis of energy management opportunities
 - energy procurement within the Ontario energy marketplace
 - the “human factor” as an important dimension in energy management
- Enable participating energy managers to be more effective in achieving conservation and demand management improvements.

Module 1 Learning Objectives



1. Provide a working definition and explain the multi-dimensional nature of energy management.
2. Relate energy management to the achievement of Ontario's CDM goals, energy supply issues, building renewal and deferred maintenance concerns, and environmental pressures such as climate change and local air quality.
3. Identify and assess the organizational practices that relate to effective energy management.
4. List and explain the key components of an Energy Management System (EnMS), in reference to ISO 50001, and discuss the process and challenges for implementing an EnMS.
5. Prepare a draft energy policy.

Defining Energy Management



“The judicious and effective use of energy to maximize profits (that is, minimize costs) and enhance competitive positions.”

(Capehart, Turner and Kennedy. Guide to Energy Management, 7th Edition. Fairmont Press Inc., 2011)

The term “energy management” means many things to different people. It is important, however, that we have a clear definition of this management function in order that the strategies discussed in this Guidebook fit together in a meaningful way.

One definition that we like is:

The judicious and effective use of energy to maximize profits (that is, minimize costs) and enhance competitive positions.