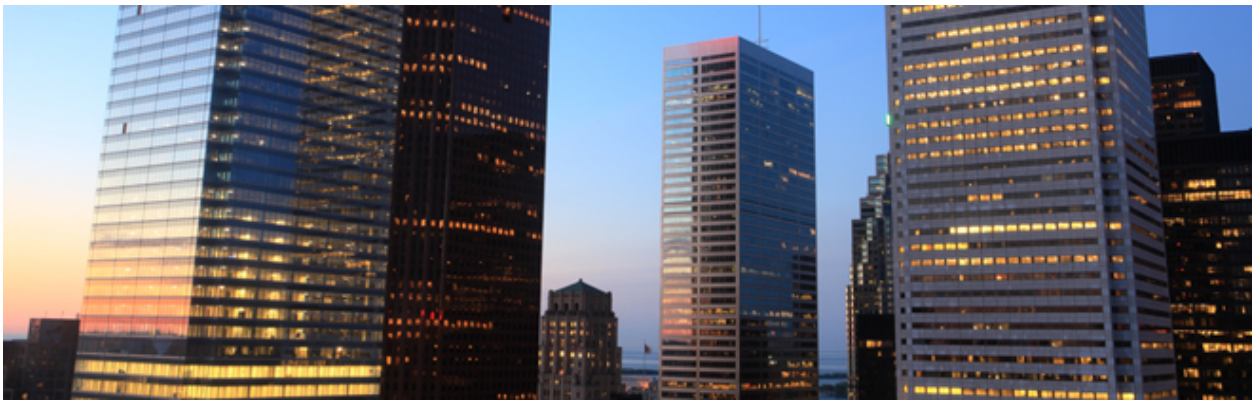
saveONenergy

Energy Auditing



ONTARIO POWER AUTHORITY

Seneca

Module 7 – Energy Auditing

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Module 7
Energy Auditing

How energy audits are (or should be) done, and

Managing the audit

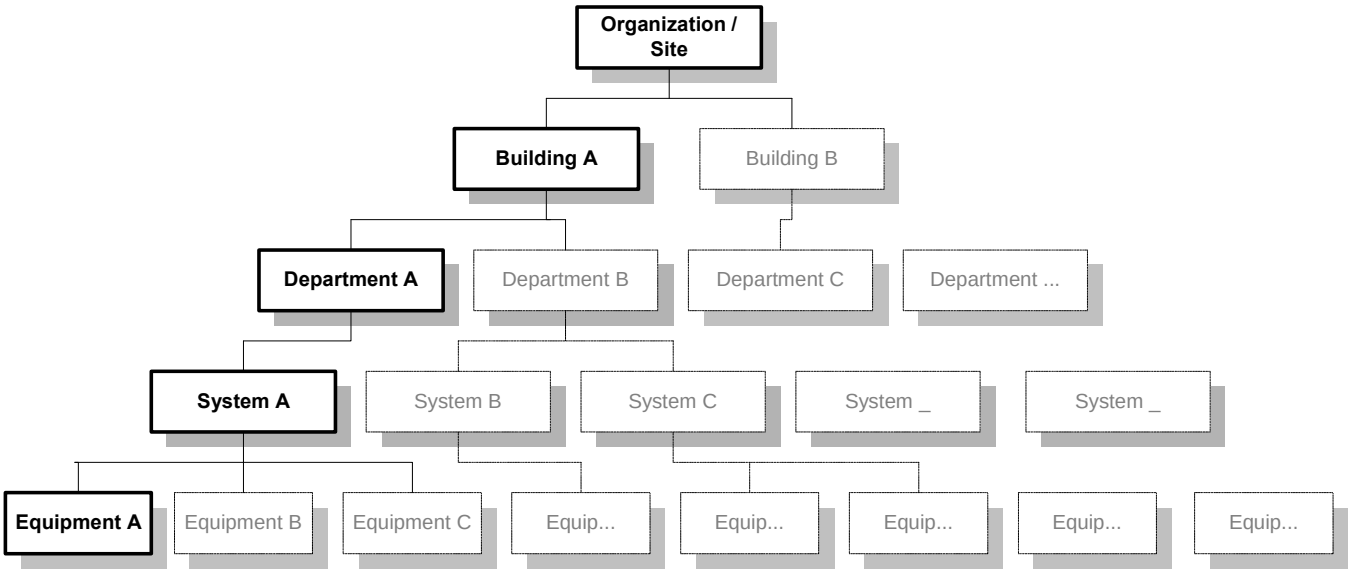
Module 7 Learning Objectives

1. Clearly identify audit requirements
2. Differentiate between ASHRAE Levels 1, 2 and 3 Audits
3. Set requirements for investment grade audits
4. Provide leadership for the implementation of in-house auditing programs
5. Secure and manage energy auditing services from third-party providers

The thermodynamic basis for energy audits

SYSTEMS APPROACH TO ENERGY AUDITING

Energy consuming systems in facilities



The Structure of an Energy Consuming System

An energy consuming system is a collection of elements that consume energy. Energy audits are usually concerned with systems that may be as extensive as a multi-plant and multi-process industrial site, or as narrow as a single piece of equipment such as a boiler.

This graphic illustrates the generic structure of an energy consuming system, as it may exist on an industrial or commercial site.

For simplicity, the figure only shows one branch to each subordinate level in the systems hierarchy. Real systems would have many branches from each component to various lower levels. In this course, the term "energy consuming system" may refer to a site, plant, department, process or piece of equipment or any combination of these.