Introduction to Measurement & Verification

The one-day workshop introduces the basic concepts of measurement and verification (M&V) and the IPMVP (International Performance Measurement & Verification protocol) that has become the most prominent reference of M&V in North America and around the world. It highlights the purposes of M&V, summarizes the range of possible M&V methods and points out the need for specific M&V design for each project.

The program is designed primarily for facility energy managers, energy efficiency program designers, as well as project managers, consultants, and anyone interested in acquiring a basic understanding of the state of the art on M&V and to get acquainted with IPMVP.

Topics Covered

Introduction
- Definition of M&V
- The range of M&V protocols for energy efficiency and carbon trading projects
- Background on EVO and the IPMVP
- Reasons for M&V

Key Concepts
- The basic savings equation
- The four IPMVP options with quick examples
- Steps in applying the IPMVP
- M&V cost and uncertainty
- M&V in EPC

Short Examples
- Examples with calculation tasks for the class and review of advantages and disadvantages of each option:
  - Option A - Lighting efficiency
  - Option B^1 - Compressed air leakage control
  - Option B^2 - Industrial heat recovery
  - Option C - Multiple retrofits in a building
- Class-suggested case studies for discussion

Target Clientele

This short thematic course is ideal for the following clientele:

- Building or industry owners who wish to measure the energy savings generated by their projects
- Building or industry owners who wish to partner with ESCOs to implement Energy Efficiency (EE) projects
- Employees responsible for EE program evaluation and operation
- Engineering firms or professional firms specialized in energy efficiency
- ESCO employees required to conduct energy audits, prepare Measurement and Verification (M&V) plans or monitor project savings

Logistics

CEUs: 0,7

Visit ii.et.com for more information on training options and registration or contact us at info@ii.et.com.