Training in Performance Risk Management for Energy Efficiency Projects
Measurement & Verification (M&V) is the process of using measurements to reliably determine actual savings created within an individual facility by implementing Energy Saving Measures.
Introduction

The PERMANENT project addresses the most common barrier to deployment of energy saving projects: disbelief that planned project results will be achieved and can pay back the investment in a sustainable manner.

Successful energy efficiency projects have, however, demonstrated key techniques for measuring project results and verification of guaranteed project savings predictions.

With the use of common practices for *measurement and verification of energy savings achieved* investors can select projects built on good foundations, and enter investments with less fear of success.

The main objective of PERMANENT is to educate financiers, project developers and energy users in measurement and verification techniques, showing that energy efficiency projects can demonstrate permanent results.

This will lead to increasing trust into the permanence of energy savings projects, eventually opening up more energy saving projects to available financing.
The training will:
- explain the basic principles of Energy Performance Contracting (EPC) – the financing of energy efficiency projects through savings
- identify the associated types of risks for EPC
- propose risk assessment of energy efficiency projects
- allocate responsibility for financial-operational-performance
- increase the confidence in savings projections and larger project investments
- raise interest for investments in energy efficiency in the role of a Third Party.
- increase understanding of services of ESCOs (Energy Service Companies)
- introduce key performance risk management techniques
- raise awareness of guidance documents on savings estimation and savings measurement and verification techniques
- present financing strategies and structures for energy efficiency projects

The training team will:
- share the knowledge
- ask for your involvement
- listen to your comments
- appreciate your experience
- record and discuss your proposals
International Performance Measurement and Verification Protocol – IPMVP –

Training Session

The training will:
- focus on savings measurement and management of savings estimates
- disseminate good practices in project risk management
- promote good practices in energy project planning and management
- increase knowledge in detailed energy savings prediction and savings measurement techniques
- increase confidence in savings projections
- enable larger project investments
- generate more business for consultants
- increase awareness about performance risk management
- share techniques for energy efficiency projects
- present widely recognized procedures
- explain how energy savings can be measured and verified
**Trainings Audience**

Within the PERMANENT program, three main target groups are identified, energy end-users, technical professionals and bankers and financiers

1. The Training Sessions are addressed to a large groups of energy end users – both building and industrial sectors including financial, management and engineering staff within large energy users such as:
   - Industries which use significant amounts of energy in their processes
   - Commercial buildings (office, retail, hospitality, warehouses)
   - Multiple residential buildings (flats, retirement facilities, etc)
   - Institutional buildings (schools, universities, military facilities, jails, hospitals, etc)
   - Property and facility management firms in the above sectors,
   - Government departments which operate large groups of buildings

2. The Training Sessions are especially addressed to technical professionals which already acquainted with energy efficiency issues:
   - Consulting companies, energy auditors
   - Local ESCO technical staff
   - Energy utilities, energy suppliers
   - Engineers within large energy users
   - Architects and developers
   - Energy Agencies
   - Independent energy savings verifiers

3. The Training Sessions are especially addressed to bankers and financiers including:
   - Local bankers
   - Financing associations
   - Legal advisors
   - Local ESCO financial and contract staff;
   - Financial managers within energy end users
   - Grant management organizations.
Trainings

During 2011, the PERMANENT PROJECT Team will be organising a series of trainings to promote the *International Energy Efficiency Financing Protocol* and *International Performance Measurement and Verification Protocol*.

The promotion of these actions is divided into three categories depending on the complexity of the information provided to the audience:

„*Introduction to International Energy Efficiency Financing Protocol*“ – IEEFP. This is a half day training addressed to Bankers and financiers (Local bankers, Financing associations, Legal advisors etc)

„*Introduction to International Performance Measurement and Verification Protocol*“ – IPMVP – This is also a half day training but it is addressed to large groups of energy end users and technical professionals already acquainted with energy efficiency issues.

The actions will take place adjacent to national (energy efficiency) events run by others. Here the local partner will deliver trainings through seminars, round tables, conferences, presentations.
"International Performance Measurement and Verification Protocol" – IPMVP - Training session Level I

This event is a one day training event and is addressed to technical professionals. It will present detailed information on methods of verification and control as well as energy saving measurement techniques. The day will be concluded with a degree of participation (Level I) offered by the organizers.

"Training for Measurement and Verification Expert “ – (Level II) is addressed to the Technical Professionals. During the two days of training, the participants will receive more detailed information on measurement and verification techniques. At the end of the two days the participants will be rewarded with a diploma (Level II).

The trainings will be performed by specialized trainers which were trained within PERMANENT project during 2009-2010.

Training materials including printed/electronic versions of Romanian protocols will be distributed for all participants for the events.

The aim of these training events is to generate a general approach / methodology for Energy Efficiency projects in order to support energy efficiency (including ESCO financed) projects for financing and implementation.
National Events

Country specific
“efficient energy use generates permanent savings serving your sustainable development”

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