EMEEES

Evaluation and Monitoring for the EU Directive on Energy End-Use Efficiency and Energy Services

The EU-funded project (Intelligent Energy Europe) was officially started in November 2006 and ended on 30 April 2009. The project was carried out by a consortium of 21 European partners and coordinated by the Wuppertal Institute for Climate, Environment and Energy.

Objectives

The objective of this project was to assist the European Commission in developing harmonised evaluation methods. It aimed to design methods to evaluate the measures implemented to achieve the 9% energy savings target set out in the EU Directive (2006/32/EC) (ESD) on energy end-use efficiency and energy services. The assistance by the project and its partners was delivered through practical advice, technical support and results. It included the development of concrete methods for the evaluation of single programmes, services and measures (mostly bottom-up), as well as schemes for monitoring the overall impact of all measures implemented in a Member State (combination of bottom-up and top-down).

Description of the Work

The support included

- a collection and comparative analysis of good practice in monitoring and evaluation methods,
- a process for the development of harmonised bottom-up and top-down evaluation methods,
- the concrete development of 20 different case applications for bottom-up evaluation methods and 14 case applications for improved top-down evaluation methods, harmonised across the EU to the extent possible,
- recommendations on how the set of top-down and bottom-up evaluation methods can prove achievement of the 9 % target,
- pilot tests of real programmes, services, or other measures, using the methods developed
- a proposal for a template for the structure and methodology of National Energy Efficiency Action Plans (NEEAPs) to be delivered by the Member States in order to show compliance with the Directive,
- a proposal for a methodology that can be used by the Commission in order to assess NEEAPs (ex ante) and reported results (ex post),
- a platform for exchange of information with the Commission and stakeholders, and
- limited ad-hoc advice.

The focus was on bottom-up methods, since the ODYSSEE consortium had developed detailed top-down indicators that only needed some further adaptations.

Expected Results

The direct results of the project are

1. a system of bottom-up and top-down methods and their integrated application for the evaluation of around 20 types of energy efficiency technologies and/or energy efficiency improvement measures, harmonised to the extent useful and possible between Member States;
2. a set of harmonised input data and benchmarks for these evaluation methods, as far as useful and possible;
3. a template for Member States for the National Energy Efficiency Action Plans; and
4. a method and tool for the European Commission to assess the plans, tested for three countries.

In the longer run, the project hopes to make an important contribution by facilitating a smooth implementation of the ESD. It wants to build trust and confidence in the measurement methodology, the template, and the ability of the NEEAPs to be compared and achievement of the 9 % target to be proven.

Consortium

The project is co-ordinated by the Wuppertal Institute. Project partners are:

Project partner	Country
Wuppertal Institute for Climate, Environment, Energy (WI)	**DE**
Agence de l'Environnement et de la Maitrise de l'Energie (ADEME)	**FR**
SenterNovem	**NL**
Energy research Centre of the Netherlands (ECN)	**NL**
Enerdata	**FR**
Fraunhofer-Institut für System- und Innovationsforschung (FhG-ISI)	**DE**
SRC International A/S (SRCI)	**DK**
Politecnico di Milano, Dipartimento di Energetica, eERG	**IT**
AGH University of Science and Technology (AGH-UST)	**PL**
Österreichische Energieagentur – Austrian Energy Agency (A.E.A.)	**AT**
Ekodoma	**LV**
Istituto di Studi per l'Integrazione dei Sistemi (ISIS)	**IT**
Swedish Energy Agency (STEM)	**SE**
Association pour la Recherche et la Développement des Méthodes et Processus Industriels (ARMINES)	**FR**
Electricité de France (EdF)	**FR**
Enova SF	**NO**
Motiva Oy	**FI**
Department for Environment, Food and Rural Affairs (DEFRA)	**UK**
ISR – University of Coimbra (ISR-UC)	**PT**
Dong Energy	**DK**
Centre for Renewable Energy Sources (CRES)	**GR**

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