

IEA Implementing Agreement on Demand-Side Management Technologies and Programmes

IEA-DSM TASK XXI: Standardisation of Energy Savings Calculations

Status report September 2010

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1. Participating and interested countries

The following countries are participating: France, Korea, Netherlands, Norway, Spain, Switzerland and the USA. All countries nominated experts who are participating in the meetings and the work.

Barry Bredekamp, Cefgroup, South Africa and Martin de Groot, CSIRO, Australia are informed on experts meeting and ongoing work. Martin de Groot informed the Operating Agent that there is no progress in Australia for participating. Both are invited for the next experts meeting.

The Operating Agent had interesting contact with ERSE, Italy (the former CESIRESERCA), on options to support the Operating Agent in an active way in the field of white certificate. In September Antonio Cappozza (ERSE) provided the Operating Agent with information on the Italian White certificate scheme.

The National Participation Plans from the following countries are finalised: Korea, The Netherlands, Norway Spain and the USA. The NPP is missing for France and Switzerland.

The legal text for the Annex is about to be sent to the IEA secretariat.

2. Progress in the work

The second experts' meeting was organised 29 and 30 March 2010 at Ademe, Paris, France. Additional to the experts also interested persons were invited to join as observers, but only the experts and contracted consultants attended the meeting. During this meeting the experts presented main elements to be included in country reports. They agreed on the outline of the country reports and of the first two task report. It was agreed that the country reports will be updated during the project and will consist the following three elements:

- a. short description of most important reports
- b. techniques descriptions
- c. standard on energy efficient, developments, comments and relevant organisations

Also the list of the prioritised techniques was finalised. The Operating Agent prepared a draft template and illustrates it with a description of a Dutch program on lighting in household. Based on the discussion during the expert meeting the Operating Agent should improve the template, using the comments from the experts' meeting (including load shape, more explanations on baselines and GHG emissions) and update the lighting example in line with the improved template.

It was agreed that, after the template was finalised, the experts should prepare (up to) three cases, presenting techniques description (is available for a country) for:

- a. Industry; Variable Speed Drive
- b. Commercial Buildings; Heating system
- c. Commercial Buildings; Integrated Airco system
- d. Households; Retrofit wall insulation

e. Households; Lighting

The target is to get about 15 techniques descriptions.

Several CDM/JI cases were researched to get information on the common elements in their calculations on energy use and on the baselines. Also the impact of the baseline selection on the energy savings calculation and the related GHG reductions are reviewed. The results were discussed at the experts meeting. Based on the experts' feed back, it was concluded that CDM/JI information holds little additional information for the project and that additional research in this field was not needed.

An internal draft of the CEN Taskforce for an EU standard on energy savings calculations was discussed at the Task experts meeting. The Operating Agent will use the outcome of the discussion as input for comments for a next draft version.

The Spanish expert presented the results of a national study on the use of energy savings calculations for the most important techniques. This report was prepared by a consultant that is involved in the ongoing work for the Task.

The main elements for Demand Response were presented by the Operating Agent and discussed by the experts. One of the main topics of discussion was in which situation the energy efficiency projects and programme has relations with Demand Response and how this should be described. A major problem is that in conducted evaluations of energy efficiency programs (almost) never attention is given to DR savings.

It was agreed that the OA should prepare in co-operation with the Spanish expert a template in line with the techniques and a paper on definitions and products.

The Operating Agent distributed the new template and the updated lighting example in line with this improved template. Several experts commented on these and in July the template was finalised and sent together with the lighting example to the experts to be used in their work for national technology descriptions.

France provided in July a description of the lighting for households in the French white certificate scheme. The Operating Agent commented on this and made suggestions for improvements.

In August France provided 3 descriptions that were distributed to the experts. The Netherlands are preparing a description on Variable speed drives.

The restricted area on IEA-DSM website is in used. All relevant documents and discussion papers for the experts are uploaded to this site. In Annex 1 the outline of the restricted site for the Task is presented.

In April the Operating Agent had a meeting in Madrid with the Spanish expert and consultant how to deal with Demand Response in the case descriptions. It was concluded that the best option would be to have a separate description for DR for those cases where this is relevant. After this meeting a document was prepared how DR information could be presented using the general template. The proposed DR description will be discussed and finalised at the next experts' meeting.

The Operating Agent attended in June the first European International Energy Program Evaluation Conference, that was organised in Paris in close co-operating between the IEA

office and the USA based IEPEC organisation. At that meeting the Operating Agent presented the ongoing work in a forum discussion and among others discussed with representatives from the IPMVP board options how they could get involved in the ongoing work and potential roles of the IPMVP in the follow up of the results after finalising this Task 21.

The CEN Taskforce 190 drafted in June and July a draft for consultation on a standard on energy savings calculations. Comments from the experts' meeting were used by the Operating Agent, who is one of the main authors of this draft, for preparing this draft.

In July 2009 the EC presented an informal draft for calculating bottom up energy savings for the ESD and targeting the implementation of this reporting system. It became obvious there will be no Commission Decision on this topic. This was already announced during the workshop on bottom up energy savings calculations and the ESD at the IEPEC conference in June 2010. The Operating Agent will be involved in the bottom up energy savings calculations for the Dutch National Energy Efficiency Plan (NEEP).

For their participation France and Spain both contracted a consultant to do national research work.

3. Financial status

Budget

The budget, as included in the work plan is follows:

		Manpower (€)	Project costs (€)	Total (€)
Subtask 1	Existing ESC standards, standards under development and most relevant reports for ESC	46000	4000	50000
Subtask 2	Basic concepts, rules and systems for ESC standards	72000	5000	77000
Subtask 3	Potential for use and continue development and maintenance of ESC standards	67000	9000	76000
Subtask 4	Communication and information	38000	39000	77000
TOTAL		223000	57000	280000

Status

By 1st August 2010 the expenditures for manpower were € 90,688 and the project costs were € 13,180. So the total costs were € 92,006. This is much lower then original expected. These lower costs are related to delay in the work. For this reason a no-costs Task extension for half a year is proposed to the EXCO for approval.

In December 2009 invoices were sent to the participating countries. By 1st of July, payments were received from France, Norway, the Netherlands and Switzerland. The OA accepted that

Korea will be able to pay contributions from 2010 onwards. Payments from Spain and the USA are outstanding.

4. Work plan for the next half year (period October 2010 to March 2011)

As it was not possible for experts to attend a meeting in September, it was decided to organise the third experts' meeting on 13 and 14 October in Madrid (Spain). If an additional experts' meeting has enough added value, this might be organised in December or January

The preparation of the first report (summarising the most relevant guidelines and standards – national and international - on ESC) was postponed as there was a delay in the expected products from the European Commission on the ESD calculations and the CEN draft standard.

After the expert meeting in October the Operating Agent will start the work for finalising this report. It will depend on the outcome of the experts' meeting at what phase the key elements to nominate Demand Response products can be incorporated.

At the experts' meeting the national case descriptions will be discussed. The OA will start to finalise the analytic frame work using the experiences from this national cases (including the selected technologies).

The second report will hold the draft basic concepts, calculation rules and systems. This report gives also attention to related GHG reductions and accepted criteria for DR products. For this report the OA will use the information from the country reports. These country reports will deal with the energy savings calculations as in use in their country for the agreed technologies. In the preparation of this report the OA will use also the available information on the ESD calculations and the CEN standard.

The restricted area of the IEA DSM Agreement for Task 21 will continue to be used for posting the discussion papers and draft reports and for experts' discussion on these drafts.

The OA will continue to consult international standardisation bodies and draft comments on regional standards (if applicable) and ensure the communication process with other Operating Agents. He will also draft the method to structure the DR products and the general accepted criteria to be included in the report on most relevant guidelines

The country experts will finalise country reports and draft comments on (selected) national standards (if applicable).

Depending on the discussion at the experts' meeting and the progress in the work, the foreseen workshop could be organised in early 2011 (an option to be discussed at the experts' meeting is a potential workshop March in Korea), but it seems more realistic to assume that this will be around the summer of 2011.

The Operating Agent got by the 1st September (till June 2011) additional assistance by a Master Student at the University Utrecht. She is doing a Master on energy savings technologies and calculation of potential and realised savings in the building sector. Professor

Cornelis Blok will supervise her work and so he will also (indirect) be involved in commenting to the energy savings calculations as prepared in this Task.

5. Items for the EXCO

1. To approve the status report
2. To approve a no-cost Task extension to 1 October 2011

The proposed Task extension will make it possible to make use of the (draft) result of national energy efficiency calculation in the EU Member States for their National Energy Efficiency Plans, they have to prepare before the 1 June 2011.

As the draft CEN standard will be available for official reactions by October, comments on this draft will be possible to the end of 2010. The conclusions of the comments for the standard are expected to be available by March 2011. The proposed Task extension will make it possible to include this new and important information in the Task work and final reports.

Annex 1: Outline of the restricted Task 21 site at www.ieadsm.org

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