

Workshop

Building energy performance assessment and quality assurance based on in-situ measurements

Wednesday 11 April 2018 - 9:00 – 13:00

In order to reduce the energy use of buildings, policy makers impose stringent requirements with regard to energy performance of new buildings and renovated buildings, and the use of renewable resources. Most compliance checks and labelling of the energy performances of buildings are done in the design phase by calculating the theoretical energy use. But, despite regulation and policy enforcements, monitoring of actual energy performances reveals in many cases a significant gap with theoretically designed targets. The currently observed performance gap, in combination with the increasing integration of innovative systems such as intelligent elements, low energy technologies, active solar systems, ... accentuate the need to develop reliable methods and procedures that can be applied on site to assess the actual performance of buildings.

This request for onsite quality assessment is also clearly visible in several initiatives taken in different countries. Current assessment methods, however, often focus only on limited aspects, such as the building air tightness, or the quality of ventilation systems,... while overall methods based on in-situ measured data remain sparse. A better prediction, characterization and quality assurance of the actual building energy performance is essential to realise the world wide intended energy reduction in building communities and systems. Quantifying the actual performance of buildings can only be effectively realised by optimized in-situ measurements combined with dynamic data analysis techniques.

The IEA EBC Annex 71-project on 'Building Energy Performance Assessment Based on In-Situ Measurements' aims to make the step towards monitoring in-use buildings to obtain reliable quality checks of daily building construction practice to guarantee that designed performances are obtained on site.

This workshop will focus on the development of methods for the assessment and assurance of energy consumption in the building sector and potential applications in the context of the regulatory assessment of the energy performance of new buildings.

The workshop is organised by the DYNASTEE platform (www.dynastee.info), facilitated by INIVE (www.inive.org), following the IEA Annex 71 4th international expert meeting in Brussels.

The seminar is open to all professionals interested in quality assurance of the actual building energy performance.

Programme

Wednesday 11 April 2018 - 9:00 – 13:00

8:30 Registration and coffee

9:00 Welcome to the workshop - Luk Vandaele (DYNASTEE)

9:05 Annex 71: Status of the project after the expert meeting

– Staf Roels (KULeuven, Operating Agent Annex 71)

9:30 Session 1 – Assessment and assurance of energy consumption in the building sector

Standards dealing with quality aspects for in-situ measurement of the energy performance

– Richard Fitton (Salford University and CEN TC 89 WG 13)

Panel discussion with Ross Holleron (Knauf Insulation) and Guillaume Pandraud (Isover Saint-Gobain) moderated by Hans Bloem (DYNASTEE, JRC)

Questions and views from the audience

10:45 Break

11:15 Session 2 – On site measurements in the context of the regulatory assessment of the energy performance of new buildings

What are challenges and opportunities when using measured consumption (and indoor climate data) for compliance checks in EPBD context? – Peter Wouters (BBRI, INIVE)

Energy performance assessment of buildings using measurements: experience from smart meter data analysis – Eline Himpe (Ghent University)

Role play on enforcement aspects in case of non-compliance – Peter Wouters

Questions and views from the audience

12:30 Closing session– conclusions by Staf Roels and Liesje Van Gelder (BCCA)

13:00 Lunch

The Annex 71 Expert Meeting and Workshop are sponsored by:



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Practical information

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Venue

The workshop will take place in the Brussels Meeting Centre of the Belgian Building Research Institute (CSTC-WTCB), Boulevard Poincaré 79, 1060 Brussels. It is within walking distance of Brussels South railway station.

Cost and registration

Participation to the seminar is free, but requires you to register for the event. The seminar will be limited to a maximum of 80 persons. A registration form is available at the end of this document.

About DYNASTEE

DYNASTEE is a platform for information exchange on dynamic analysis, simulation and testing of the energy performance of buildings. DYNASTEE is closely linked to the activities of the IEA ECB Annex 71 project; it is responsible for the subtask on dissemination and the Network of Excellence. This is done through activities such as training of researchers on dynamic methods (Summer School), bringing its expertise from earlier projects (PASSYS-PASLINK) into the Annex 71 project, publication of a newsletter and a website, and organising workshops and webinars.

About INIVE

INIVE EEIG (International Network for Information on Ventilation and Energy Performance), a European Economic Interest Grouping has 9 member organisations (BBRI, CETIAT, CSTB, eERG, IBP-Fraunhofer, SINTEF, NKUA, TMT US and TNO) (www.inive.org). INIVE is coordinating and/or facilitating various international projects, e.g. the AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool (www.venticool.eu) and DYNASTEE (www.dynastee.info).

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Registration form

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(Mr/ Mrs/ Dr):

Last name:

First name:

Institution:

Address:

ZIP:

City:

Country:

Phone:

Fax:

E-mail:

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The workshop will be limited to a maximum of 80 persons.

Please return this completed registration form to Stéphane Degauquier, INIVE, Lozenberg 7,
BE-1932 St-Stevens-Woluwe, Belgium – Fax : +32.2.653.07.29 – Tel : +32.2.655.77.70 –
e-mail : sd@bbri.be