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Renewable heating and cooling systems for buildings

International workshop on securing the compliance of product data and the quality of installed systems, to reach high levels of energy performance

Description

The objective of this workshop is to discuss and identify ways to better secure the compliance of renewable heating and cooling product data, as well as the quality of installed systems, thereby increasing the confidence in declared values on the Energy Performance Certificate (EPC) and achieving the expected energy performance.

Three aspects will be more specifically addressed:

- how to provide compliant input data used to issue an Energy Performance Certificate;
- how to improve the quality of the installation works;
- how to enforce compliance, and how to define/apply penalties in case of non-compliance.

In the context of the revision of the Energy Performance of Buildings Directive (EPBD), the workshop discussions will be based on detailed presentations of schemes that are operational or under development. Interaction between participants will allow exchanges of ideas and experience.

The programme will include a visit of CETIAT laboratories (testing of renewable heating and cooling systems, practical training for installers and maintenance staff).

Context

Systems providing heating, cooling and domestic hot water to residential and commercial buildings include more and more renewable energy sources: solar thermal, heat pumps, geothermal, biomass, photovoltaics.

They are covered by Commission Regulations on Ecodesign and Energy labelling. They also help to achieve the national targets defined by the Renewable Energy Directive (RES).

National legislations implementing the EPBD require a calculation of the energy performance, with an energy rating on the Energy Performance Certificate (EPC). This needs input data for the calculation to describe the building and the construction products, but also the performance of the systems. Input data must be compliant, i.e. determined in accordance with the legal rules. It is also necessary that they can be found easily by the experts operating the calculation.

The trend towards Nearly Zero-Energy Buildings (NZEB) implies a better execution of construction works and the increased installation of advanced technologies, such as renewable heating and cooling, requiring specific skills of the workforce in order to reach quality and good performance of the installed systems. The revision of the EPBD could have an impact on the ways to reach, assess and monitor the performance of systems.

Organisers

The workshop is organised by CETIAT on behalf of the QUALICHeCK consortium (www.qualicheck-platform.eu)

Language

The workshop language is English.

Registration and participation

Participation to the workshop is upon registration at www.qualicheck-platform.eu/forms/qualicheck-lyon-workshop-registration

Participation is free of charge. In case of no show, a fee of 100 € may be invoiced to cover organisation costs (material, catering, etc.).

A certificate of attendance will be provided upon request.

The most recent agenda and updates on the workshop are available at www.qualicheck-platform.eu

Venue

The workshop will be held at <https://goo.gl/uyzNTh>

CETIAT

Domaine Scientifique de La Doua

25, avenue des Arts

Villeurbanne (Lyon), France

Accommodation

Participants may book a room in the nearest hotel Ibis Styles Lyon Villeurbanne (800 m away) www.ibis.com/gb/hotel-9012-ibis-styles-lyon-villeurbanne/index.shtml. Several other hotels are available in Lyon, either downtown or near Lyon Part-Dieu railway station.

Travel information

Lyon Part-Dieu station: 4,5 km | Lyon Saint-Exupery airport: 25 km

The tram stop "INSA Einstein" is about 500 meters from CETIAT. It is served by tram line T1, coming from Lyon Part-Dieu Station. For current schedules please visit www.tcl.fr.

A shuttle train exists between the airport and the station. For current schedules please visit www.rhonexpress.fr.

About QUALICHeCK

The QUALICHeCK project aims to contribute to the implementation of Nearly Zero-Energy Buildings (NZEB) and achieving minimum shares of Renewable Energy, by supporting improved quality of works and compliance to regulations in buildings. In respect to the reliability of Energy Performance Certificate (EPC) declarations and the quality of the works, QUALICHeCK's activities include:

- identifying issues in respect to existing procedures;
- highlighting best practices for easy access to reliable EPC input data, delivery of improved quality of the works, as well as more effective compliance frameworks ("lead people to do what they declare");
- raising awareness and engaging relevant stakeholders.

The project focuses mainly on, but is not limited to, 9 countries (Austria, Belgium, Cyprus, Estonia, France, Greece, Romania, Spain and Sweden) and 4 technology areas (transmission characteristics, ventilation and airtightness, sustainable summer comfort technologies and renewables in multi-energy systems), as well as innovation and the residential sector.