Renewable heating and cooling systems for buildings

Objectives of the workshop

Susanne Geissler
ÖGNB (Austrian Sustainable Building Council), Austria

François Durier
CETIAT, France

17th January 2017
Objectives

• Focus on renewable heating and cooling systems for buildings:
  • solar thermal, heat pumps, geothermal, biomass, photovoltaics

• To discuss and identify ways to better secure:
  • the **compliance** of renewable heating and cooling product data
  • the **quality** of installed systems

thereby increasing the confidence in declared values on the Energy Performance Certificate (EPC) and achieving the expected energy performance
Programme

- Technologies, regulations, input data for energy performance calculations (session 1)
  - RHC Platform, EHI, ÖGNB

- Certification of product data, product characteristics database (session 2)
  - Eurovent Certita Certification, DIN CERTCO, UNICLIMA

- Quality of the installed systems (session 3)
  - AQC, Fraunhofer IBP

- EPB standards, revision of the EPBD (session 4)
  - CETIAT

- Visit of CETIAT laboratories (optional)
Renewable heating and cooling: promising technologies and relevant regulations

• Technologies for renewable heating and cooling in buildings
  • Daniel Mugnier (Tecsol / RHC Platform)

• How are renewable heating and cooling systems covered by numerous regulations
  • Geert de Cock (EHI)

• Input data for building energy performance calculation: which are they? What about their compliance?
  • Susanne Geissler (ÖGNB)
Trustworthy product data for compliant Energy Performance Certificates

- Eurovent Certification for heating and air-conditioning products
  - Sandrine Marinhas (Eurovent Certita Certification)

- Heat Pump Keymark
  - Katharina Meyer (DIN CERTCO)

- The French product characteristics database for boilers, heat pumps and solar thermal systems
  - Jean-Paul Ouin (UNICLIMA) / Dominique Hantz (CETIAT)

- Discussion
  - François Durier (CETIAT)
Tools to enhance the quality of installed systems

• Professional rules and guidelines for installers: the French Programmes RAGE and PACTE
  • Sylvain Mangili (Agence Qualité Construction)

• How to achieve quality of the works? Presentation of QUALICHeCK findings
  • Hans Erhorn (Fraunhofer IBP) / Rémi Carrié (ICEE/INIVE)
Revision of the EPBD: possible impacts for heating and cooling systems

- The European EPB standards for heating and cooling systems: link with EPC input data
  - Dominique Hantz (CETIAT)

- Revision of the EPBD: possible changes and additions
  - François Durier (CETIAT)

- Revision of the EPBD: possible impacts on heating and cooling systems
  - Michèle Mondot (CETIAT)

- Discussion and interactive voting
  - Peter Wouters (BBRI/ INIVE)
Practical information

• Time for questions after presentations

• Discussion at the end of session 2 (certification, database)

• Discussion and interactive voting at the end of session 4 (revision of the EPBD)

• Coffee breaks and lunch for networking and informal discussions

• Presentations will be available for download after the workshop