

# Renewable heating and cooling systems for buildings

## Objectives of the workshop

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- 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

- 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)

- 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





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