Interesting approaches

Experiences with renewables

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EU is moving towards Nearly Zero-Energy Buildings

TRANSITION IN ENERGY PERFORMANCES OF BUILDINGS

⇒ THE BETTER ENERGY PERFORMANCE, THE MORE QUALITY MATTERS
Experiences with renewables

Why should I invest in a solar thermal system?

Would I still buy it?

- **NO PROBLEMS** 20%
- **MINOR PROBLEMS** 42%
- **SIGNIFICANT PROBLEMS** 38%
Poor quality on solar thermal installations

- **Significant problems with**
  - Pressure on the system (26%)
  - Temperature probe (24%)
  - Conceptual errors (16%)
  - Missing thermostatic mixing valve (8%)

- **Minor problems with**
  - Missing collector safety valve (76%)
  - Insufficient insulation solar circuit (48%)

- Lack of competence...
- Low monitoring on performance...
As well quality problems with other RES technologies
Market uptake for new technologies?

- Consumers should be able to rely on the skills of the building professional and get value for money
  - Expected (energy) performance
  - Maximum operational lifetime
  - Safe and healthy building
Why quality schemes for renewables?

1. New technologies with insufficient knowledge
2. Without quality scheme insufficient knowledge acquisition
3. Consciously poor execution or erroneous reporting
4. Negative experiences have impact on the whole market uptake
Comprehensive quality scheme

- PRODUCTS
- DESIGN
- EXECUTION
- MAINTENANCE
- Valorisation
- Control
- Competence
- QUALITATIVE INSTALLATION
Quality schemes in European legislation

- RES-directive (2009/28/EC), article 14.3: certified or qualified installers

- PHOTOVOLTAICS
- SOLAR THERMAL
- BIOMASS BOILERS & STOVES
- HEAT PUMPS
- SHALLOW GEOTHERMAL
Quality scheme in RES-directive

- Accreditation by member states
- Can be based on existing schemes
- Time restricted → refresher training
- Mutual recognition → challenge - EU-service tender
Guarantee for a qualitative RES-installation?
Guarantee for a qualitative RES-installation?
Perspective: buildings are becoming smart

Building automation

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Monitoring small scale renewables

_exist already, but no current practices_
The European Commission launched the public consultation on the EPB-directive running till 31 October 2015. The online survey consists of 79 questions and all stakeholders can evaluate if the directive has met its aims.

Window of opportunity for further compliance of EPC & quality of the works

Thank you for your attention!

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