Interaction between EPBD Concerted Action and BUILD UP Skills

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Structure

Objectives of the action
Approach in practice
Examples
Conclusions
Objectives of the action

The proposed activity aims to meet the following objectives:

1. **Support dialogue** between the competent authorities implementing the EPBD and the BUILD Up Skills Consortia
2. **Encourage discussions** about mismatches (if any) in legislative implementation and skills development
3. Ensure that **EPBD recast implementing measures and their timing are accounted for in BUILD UP Skills**
   → status-quo and roadmaps
4. **Collect interesting examples of BUILD UP Skills** roadmap measures which facilitate EPBD implementation
5. **Share interesting examples of EPBD recast implementation** linked to qualification measures for the on-site workforce
6. Evaluate if, and how, the **buildings related aspects of the Energy Efficiency Directive** have implications for skills development of the on-site workforce
EPBD Article 8.1
Technical building installations

Member States shall, for the purpose of optimising the energy use of technical building systems, set system requirements in respect of:

- the overall energy performance,
- the proper installation,
- the appropriate dimensioning, adjustment and control of the technical building systems

which are installed in existing buildings.

Member States may also apply these system requirements to new buildings.

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EPBD Article 27 Penalties

- Member States shall lay down the rules on penalties applicable to infringements of the national provisions (...).
- The penalties provided for must be effective, proportionate and dissuasive.
EED article 4

Member States shall establish a long-term strategy for mobilizing investment in the renovation of the national stock of residential and commercial buildings, both public and private. This strategy shall encompass:

– An overview of the national building stock based, as appropriate, on statistical sampling;
– an identification of cost effective approaches to renovations relevant to the building type and climatic zone;
– policies and measures to stimulate cost-effective deep renovations of buildings, including staged deep renovations;
– a forward looking perspective to guide investment decisions of individuals, the construction industry and financial institutions;

Structure

Objectives of the action

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Conclusions
**Decision** by EPBD-CA management team to start the action

Setting up of **working group** with as members:

- M. Antinucci (Italy),
- S. Geissler (Austria),
- M. Papaglastra (Greece),
- P. Wouters (Belgium)

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**Preparation phase**

- In collaboration with EACI
- Identification of national EPBD-CA contact persons (with budget)
BUILD UP Skills plenary meeting Brussels

Information sessions (by internet) for national EPBD-CA contact persons:
- December 6
- December 11
Information exchange at national level

**Belgian approach?**

We will organise a meeting in January between all Belgian participants from:

- RES Concerted Action
- EPBD Concerted Action
- BUILD UP Skills
If requested: reporting at BUILD UP Skills meeting(s)
The impact of training activities on quality of the works?

Quality of the works if well trained...

On the one hand...

- Client satisfaction
- Limitation of liability
- (Perceived) Risk of problems with...
  - Client
  - Government
  - Insurance
  - ...

On the other hand...

- Profit
- Very strong competition?
- No clear quality targets?
- No control
- ...
Quality of the works if well trained...

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**Examples**

- Ductwork airtightness
- Building airtightness
- Insulation of existing cavity walls
- Thermal bridges
- Ventilation systems
- PV systems
Ductwork airtightness in 1999

Duct leakage data from the SAVE-DUCT project (Carrié and collaborators, 1999).
21 systems tested in Belgium, 21 in France, 69 in Sweden.

Belgium and France: About 20% of ventilation flow rate was leaking away (1999)

1. Awareness
2. Training
3. Good design
4. Purchase & installation
5. Testing
Ductwork in Sweden

- Test of 10% of installation
  - Improve till OK
- Test another 10% of installation
  - Improve till OK
- Test of 100% of installation
  - Improve till OK

System APPROVED

Control of performances!

Assessment by a civil servant

Government

[Image of a building]
Control of performances!

Accredited organisation(s) → Government

Certified building contractor

Random checks

Building airtightness

French approach in framework of RT2012

OPTION 1: Certified tester

OPTION 2: Building firm with integral quality approach
Insulation of existing cavity walls

**UK approach**
- Cavity Insulation Guarantee Agency
- Several million dwellings

**Belgian approach**
- Neutral document with technical specifications
- Quality requirement in context Flemish subsidies

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**Thermal bridges**

Belgium
France
Germany
Netherlands

Interesting EPBD related approaches...
Installation of ventilation systems in new dwellings in Flemish Region

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<th>Natural supply and mechanical exhaust</th>
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<tr>
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<td>60%</td>
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</tbody>
</table>

<2006
Market of air distribution systems heavily depends on societal view on awareness on quality and compliance

Sweden: Building law requiring ventilation control

- **1991**: compulsory system for ventilation control (OVK)
  - Aim: control and improve function of ventilation installations
  - Ventilation in most types of buildings has to be controlled
    - before the installations are taken into operation and
    - then regularly at recurrent inspections.
- According Swedish environmental legislation:
  - In **2020** all buildings shall be healthy & good indoor environment
- One of intermediate goals:
  - “all buildings where people stay often or during a longer time shall **2015** at the latest have been proven to have a functioning ventilation system”.

AIVC Brussels 2012 - Johnny Andersson (Ramboll)
Heavy storms in Belgium January 2012

• 3 January:
  – Middelkerke, 104 km/h - Uccle (94 km/h) - Deurne (90 km/h).

• 5 January:
  – Gembloux 122 km/h - Wavre 108 km/h - Koksijde101 km/h.

9 Beauforts - Return rate of 3 years

Results for 1 insurance company

• 5% of installations with insurance were damaged
• 700,000 € of damage
• More than 100 installers were involved

BUILD UP SKills meeting Brussels
Is training enough?
Or should there be third party control?
• Good quality of the works is essential but not an evidence!
• This activity aims to optimise interaction between BUILD UP Skills related activities and the EPBD Concerted Action