EDUCATION FOR THE ON-SITE WORKERS TOWARDS TO THE NEARLY ZERO ENERGY HOUSES

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AGENDA

1. Introduction of the project and team
2. Status quo analysis
3. Barriers of the on site workers education and training in the Czech Republic
4. Current results of the project
5. Conclusion
PROJECT FOCUS AND PROJECT PARTICIPANTS

- Project aims to provide education and training of the on-site workers to successfully meet the requirements on the Energy Performance of Buildings according to EPBD II

- The education and training should be provided by 2020

Project participants

- **Public bodies** - MPO - Ministry of Industry and Trade, **NÚV** - National Institute for Education

- **Associations** - ČKAIT - Czech Association of Certified Engineers and Technicians, CzGBC - Czech Green Building Council, **ABF** - Architecture and Building Foundation, **SPS** - Association of Building Entrepreneurs of the Czech Republic

- **Private companies** - ENVIROS, EkoWATT, **CPD** - Passive House Centre, **SEVEEn** - Center for Energy Efficiency
STATUS QUO ANALYSIS

Number of construction workers in Czech Republic [thousands]

Development of RES

Details of the report at http://www.build-up.cz/

Sources: NÚV 2010, ERÚ 2012
CURRENT BARRIERS RESULTING FROM STATUS QUO ANALYSIS

- Missing central management of the branch
- Low productivity and quality of construction works
- Pressure on the using of unqualified workers
- Low interest of youth to work in civil engineering
- Low motivation of adult to increase their skills and knowledge
- Unprepared population for using and operating of passive housing.
- Unsatisfied coordination of construction works (poor motivation of workers)
- Unstable support EE and RES by the government
PROFESSIONS SELECTED FOR EDUCATION AND TRAINING

- Masons, plasterers, locksmiths, carpenters, plumbers
- Technologies + systems building services + RES
- Electricians (felt weak) + lighting + metering systems and regulations
- Middle class and higher on site managers

Approximately 60,000 construction workers should be educated and trained

CESB, Prague, June 2013
PROJECT PRIORITIES

- To increase knowledge and skills of the construction management „white collars“
- Actualization of the „blue collars“ professions description in the current national system of professions
- To establish system of courses increasing knowledge for coordination of construction workers
- To develop quality control of the construction work

8 measures of the National action plan
### 8 Measures of the Action Plan

<table>
<thead>
<tr>
<th>Measure</th>
<th>Cost Estimation</th>
<th>Financial Sources</th>
<th>Type of professions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creation of the courses for builders</td>
<td>17,1 mil. Kč</td>
<td>ESF – 70%, MPO ČR – 15%, education organizations – 15%</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Education and training for adults in selected types of professions</td>
<td>624,5 mil. Kč</td>
<td>ESF – 45%, MPO ČR – 15%, companies – 20%, trainees - 20%</td>
<td>1 – 4</td>
</tr>
<tr>
<td>Creation of the qualification standards for profession technical control of investor</td>
<td>3,5 mil. Kč</td>
<td>SPS, ČKAIT, ČKA</td>
<td>4</td>
</tr>
<tr>
<td>Creation of database of craftsman including their qualification and certificates</td>
<td>14,5 mil. Kč</td>
<td>ESF/ EFRR – 80%, education organizations – 20%</td>
<td>1-3</td>
</tr>
<tr>
<td>Connection of databases for building materials and technologies</td>
<td>23,4 mil. Kč</td>
<td>ESF – 30%, producers – 50%, trainees – 20%, Education organization – 10%</td>
<td>1-3</td>
</tr>
<tr>
<td>Exhibition of buildings in nZEB standard</td>
<td>53,0 mil. Kč</td>
<td>ESF – 45%, trainees – 45%, education organizations– 10%</td>
<td>1-3</td>
</tr>
</tbody>
</table>
CONCLUSION

Many strong leakages and also positives in the current education system have been found.

The most important challenge for all ten project partners is the implementation of current needs in education system and law.

The next steps?

Establishing of the National qualification platform
Endorsement activities and dialog with stakeholders
Detailed specification of measures
Thank you for your attention!

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Details on BUILD UP Skills "Czech Republic" at http://www.build-up.cz/
Details on s on BUILD UP Skills at www.buildupskills.eu
Details on on the IEE programme at http://ec.europa.eu/intelligentenergy