TRAIN-TO-NZEB
THE PROGRESS SO FAR

BUILD UP Skills International Exchange Meeting
06 June 2016, Budapest
Completed deliverables

- D 5.3 Website – done. Local sites developed
- D 3.1 A set of new/adopted training programmes: March. Responsible: all/PHI
- D 3.2 Training programs for professional and pedagogic training of trainers: March. Responsible: all/PHA & LIT
- D 1.4 First progress report: April 2016
Next Deliverables: JUNE 2015

- D2.3 Web-based networking platform (EE)
- D2.4 Six new MoUs signed with new network members (EE)
- D2.5 Business plans for each BKH (locally)
- D3.3 Presentations and participants lists from TTT courses (locally, PHI)
- D4.5 List of trained professionals (EE)
COMMUNICATION

Communication

- Website development: national pages
- National events
- International events: PH Conference, C4E Forum
- Press releases and media events
- Newsletter and social media - FB, twitter
- Next meeting: 20th June, Prague
SETTING UP BKHs

Terms of Reference: Facilities

- Studying ToRs: adaptation to national traditions and design and construction of training and demo models
- National ToR for internal use
- First model drawings available
- Cooperation agreements close to completion
- Issues with timing
BUSINESS PLANS

Business plan

- Market Research (MR) Reports available
- Additional secondary and primary research to support the Business plan is being performed
- Business plan drafting: starts upon completion of the MR Report
- Business plan draft deadline: May
SETTING UP BKHs

CZECH REPUBLIC

- Czech construction academy Prague (ABF)
- Location in the centre of Prague (Václavské náměstí)
- Excellent transport accessibility (Prague Main Station, public transport)
SETTING UP BKHs

ROMANIA

- Full size research laboratory for the development and assessment of nZEB technical solutions – long term vision (2020)
- Practical training area within the Testing Hall INCERC – CPEC / Building Services
- Analyse existing construction practice in Romania and define best practice suitability for nZEB / PH
- Details for mock-ups: First proposals for discussions
SETTING UP BKHs

TURKEY

Models (90 m²)
Airtight Room (12 m²)
Classes (28.8 m²)
Office (12 m²)
SETTING UP BKHS
TRAINING & TTT PROGRAMMES

Training Framework

- Detailed Training Framework is provided for project partners & associates
- Based on the results of BUS, other IEE, H2020 & 7FP projects
- Module-based framework – allows for customization for each country
- A number of sources available online
- TTT course completed with the help of PHI online tool

www.train-to-nzef.com
## On-site Construction Crafts & Professions

<table>
<thead>
<tr>
<th>№</th>
<th>Training program</th>
<th>No. hours</th>
<th>Short description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Building Envelope (BUS EnerPro)</td>
<td>40</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>2</td>
<td>Building Systems (BUS EnerPro)</td>
<td>40</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>3</td>
<td>Building Market, Products and Technologies (BUS EnerPro)</td>
<td>40</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>4</td>
<td>PVs (BUS EnerPro)</td>
<td>40-60</td>
<td>Modular structure, up to 60% practice, each student is stimulated to attend more than 1 course.</td>
</tr>
<tr>
<td>5</td>
<td>Solar thermal (BUS EnerPro)</td>
<td>40-60</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>6</td>
<td>Biomass (BUS EnerPro)</td>
<td>40-60</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>7</td>
<td>Mini-wind (BUS EnerPro)</td>
<td>40-60</td>
<td>Online course + 2 days (theory and practice)</td>
</tr>
<tr>
<td>8</td>
<td>Thermal pumps (BUS EnerPro)</td>
<td>40-60</td>
<td>Modular structure, up to 60% practice, each student is stimulated to attend more than 1 course.</td>
</tr>
<tr>
<td>9</td>
<td>Heating, ventilation and AC (BUS EnerPro)</td>
<td>40-60</td>
<td>Same as above</td>
</tr>
<tr>
<td>10</td>
<td>Hybrid systems (BUS EnerPro)</td>
<td>40-60</td>
<td>Same as above</td>
</tr>
<tr>
<td>11</td>
<td>Certified PH Tradesperson (envelope/systems)</td>
<td>2.5 days</td>
<td>Following the PH scheme, based on bilateral agreements</td>
</tr>
<tr>
<td>12</td>
<td>Airtightness</td>
<td>16</td>
<td>Theory + practical</td>
</tr>
<tr>
<td>13</td>
<td>Ventilation systems with heat recovery</td>
<td>16-24</td>
<td>Theory + practical</td>
</tr>
<tr>
<td>14</td>
<td>Insulation systems + thermal bridges</td>
<td>16-24</td>
<td>Theory + practical</td>
</tr>
</tbody>
</table>

Co-funded by the Intelligent Energy Europe Programme of the European Union
BKH – Training Modules – Bulgaria (2/2)

Designers, consultants, building managers (specialists)

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<tbody>
<tr>
<td>1</td>
<td><em>Certified PH Designer / Consultant</em></td>
<td>7-10 days</td>
<td>Following the PH scheme, based on bilateral agreements</td>
</tr>
<tr>
<td>2</td>
<td>NZEB design basics</td>
<td>24 hours</td>
<td>Online training + theory + demonstrations</td>
</tr>
<tr>
<td>3</td>
<td>Airtightness</td>
<td>16</td>
<td>Online training + practical</td>
</tr>
<tr>
<td>4</td>
<td>Ventilation systems with heat recovery</td>
<td>24</td>
<td>Online training + theory + practical</td>
</tr>
<tr>
<td>5</td>
<td>Insulation systems + thermal bridges</td>
<td>24</td>
<td>Online training + theory + practical</td>
</tr>
<tr>
<td>6</td>
<td>RES in NZEBs</td>
<td>24</td>
<td>theory + practical</td>
</tr>
</tbody>
</table>

Non-specialists

<table>
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<tbody>
<tr>
<td>1</td>
<td>PH/NZEB economics</td>
<td>8</td>
<td>theory + demonstrations</td>
</tr>
<tr>
<td>2</td>
<td>PH/NZEB design basics</td>
<td>8</td>
<td>theory + demonstrations/practical</td>
</tr>
<tr>
<td>3</td>
<td>Airtightness</td>
<td>8</td>
<td>theory + demonstrations/practical</td>
</tr>
<tr>
<td>4</td>
<td>Ventilation systems with heat recovery</td>
<td>8</td>
<td>theory + demonstrations/practical</td>
</tr>
<tr>
<td>5</td>
<td>Insulation, PH windows &amp; thermal bridges</td>
<td>8</td>
<td>theory + demonstrations/practical</td>
</tr>
<tr>
<td>6</td>
<td>RES in NZEBs</td>
<td>8</td>
<td>theory + demonstrations/practical</td>
</tr>
</tbody>
</table>

*The length and the format (all modules or a package of modules) of the trainings will be determined based on the MR results*