Exemplary buildings program:

achieving exceptional energy performance (prelude to site visits)

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BRUSSELS POLICY FOR HIGH ENERGY PERFORMANCE BUILDINGS

Stimulate DEMAND

Improve Knowledge & know-how

Adapt LEGAL framework

Improve SUPPLY
Proof of feasibility of ambitious targets with the exemplary buildings

Call for projects to stimulate construction, refurbishment and extension of “sustainable” buildings in Brussels


243 buildings – 620,000 m² - all building types

→ 56% are Passive House buildings
→ 39% in refurbishment
→ 205,000 ft² solar pannels- 194 green roofs
→ 41% of Exemplary Buildings from public authorities

Brussels goes High Energy Performant in 2015 !
Exemplary buildings – Evaluation criteria

*ENERGY
High performances
= minimum energy demand
Near Zero Energy Buildings

*ECO CONSTRUCTION
Minimum environmental negative impact

*PROFITABILITY & REPRODUCIBILITY
Reasonable solutions

*ARCHITECTURAL QUALITY
Patrimonial respect
Visibility
Regional Grants and support:

* FINANCIAL SUPPORT
  100€/m²

* TECHNICAL SUPPORT
  quality control

* PROMOTION
  publications, website, …

33 Mio € grants over 6 years impacting a total investment budget of 815 Mio €
an energetic BOOM

2365 High Energy Performant buildings
2096 retrofitted High Energy Performant buildings
216 passive buildings
10,8 million ft² nearly 1,000,000 m² passive buildings realised/under construction/in project

source: HEP buildings'inventory 2013
“Passive” is mandatory for housing, offices, schools since 1\textsuperscript{st} of Januari 2015

<table>
<thead>
<tr>
<th>housing</th>
<th>offices + schools</th>
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<tbody>
<tr>
<td>Specific space heating demand</td>
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<tr>
<td>≤ 15 kWh/(m²a)</td>
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<tr>
<td>Airtightness (from 2018)</td>
<td>cooling demand</td>
</tr>
<tr>
<td>0,6 Volume/h under 50 Pa</td>
<td>≤ 15 kWh/(m²a)</td>
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<td>primary energy demand</td>
<td>Airtightness (from 2018)</td>
</tr>
<tr>
<td>(heating, cooling, hot water,</td>
<td>0,6 Volume/h under 50 Pa</td>
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<tr>
<td>auxiliary)</td>
<td>primary energy demand</td>
</tr>
<tr>
<td>45 kWh/m².Year</td>
<td>(heating, cooling, hot water,</td>
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<tr>
<td>overheating</td>
<td>auxiliary)</td>
</tr>
<tr>
<td>maximum 5% of time &gt; 25°C</td>
<td>Overheating</td>
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<td></td>
<td>maximum 5% of time &gt; 25°C</td>
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**Overriding rule**, if bad compactness or orientation

**Heavy refurbishment**: > 75% of loss surfaces and all installations are replaced

→ same requirements x 1,2 (except overheating)

Calculated with belgian method
This afternoon ...

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
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<tbody>
<tr>
<td>14:00</td>
<td><strong>Meeting in front of the EuroACE’s office</strong> <em>(Rond-point Schuman)</em></td>
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<tr>
<td>14:20</td>
<td><strong>Visit of Exemplary Building Luther</strong></td>
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<td></td>
<td>Transformation of a traditional Brussels house into 4 passive apartments</td>
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<td>15:30</td>
<td><strong>Visit of Exemplary Building Quai du Hainaut</strong></td>
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<td>Retrofitting and transformation of the old Belle-Vue breweries into a hotel complex and facilities</td>
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<td>16:40</td>
<td><strong>Arrival at the EuroACE’s office</strong> <em>(Rond-point Schuman)</em></td>
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<td>End of the visit</td>
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</tbody>
</table>
Rue Luther
Quai du Hainaut
Thank you


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