Exemplary buildings program:

achieving exceptional energy performance (prelude to site visits)

REDay2016

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BRUSSELS POLICY FOR HIGH ENERGY PERFORMANCE BUILDINGS

Improve
Knowledge & know-how

Stimulate **DEMAND**

Improve **SUPPLY**

Adapt **LEGAL** framework

Proof of feasibility of ambitious targets with the exemplary buildings

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

6 editions : 2007, 2008, 2009, 2011, 2012, 2013

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:

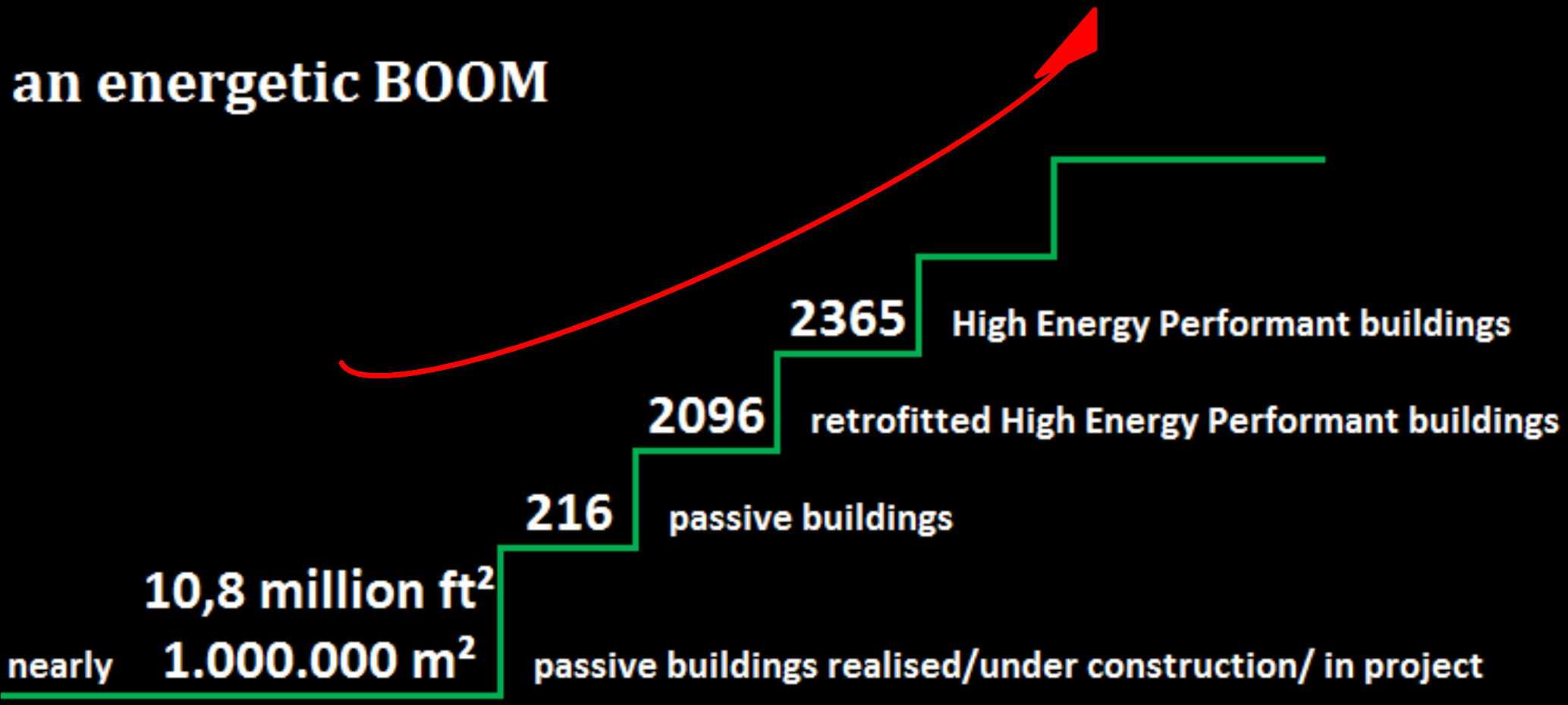
* FINANCIAL SUPPORT
  100€/m²

* TECHNICAL SUPPORT
  quality control

* PROMOTION
  publications, website, …

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

an energetic BOOM



source: HEP buildings'inventory 2013

“Passive” is mandatory for housing, offices, schools since 1st of Januari 2015

housing

Specific space heating demand	≤ 15 kWh/(m²a)
Airtightnes (from 2018)	0,6 Volume/h under 50 Pa
primary energy demand (heating, cooling, hot water, auxiliary)	45 kWh/m².Year
overheating	maximum 5% of time> 25°C

offices + schools

Specific space heating demand	≤ 15 kWh/(m²a)
cooling demand	≤ 15 kWh/(m²a)
Airtightness (from 2018)	0,6 Volume/h under 50 Pa
primary energy demand (heating, cooling, hot water, auxiliary)	95 – 2,5 x Compactness (max 4) kWh/m².year
Overheating	maximum 5% of time> 25°C

Overriding rule, if bad compactness or orientation

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

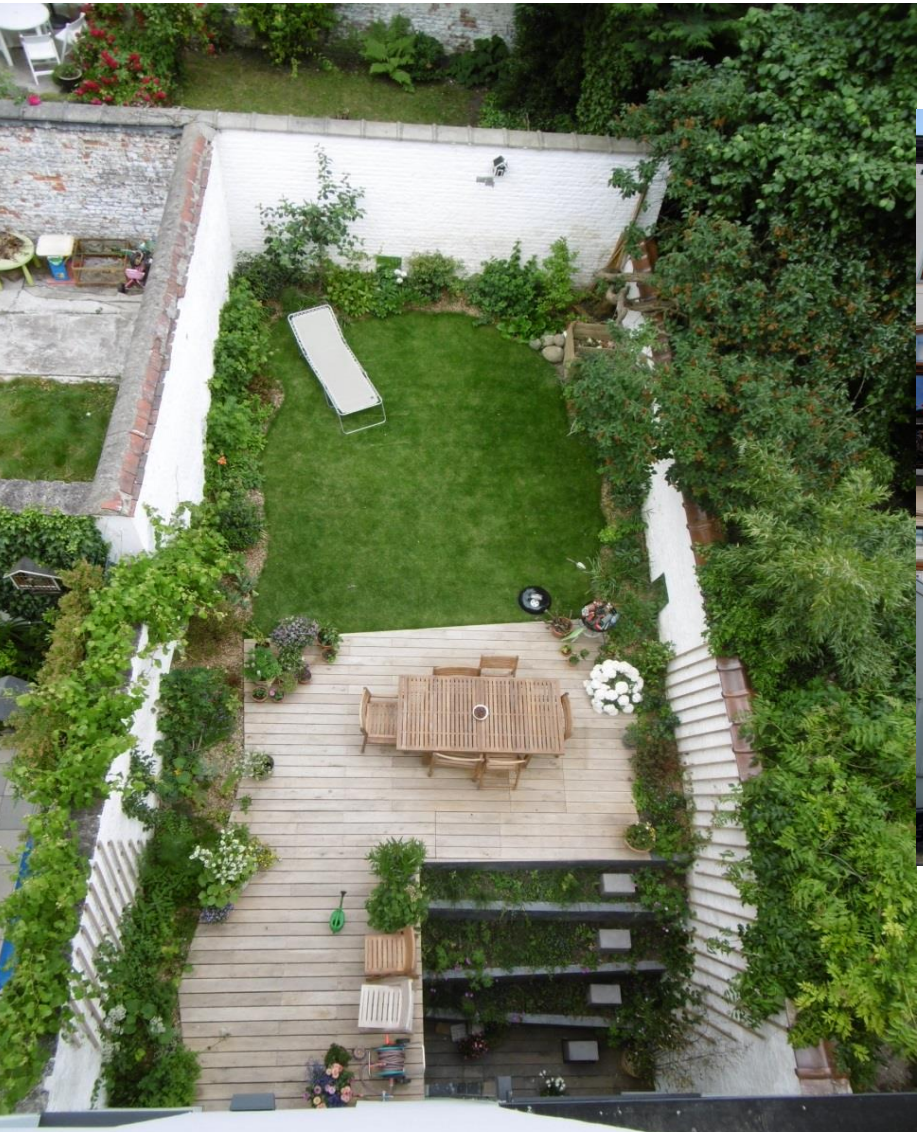
→ same requirements x 1,2 (except overheating)

Calculated with belgian method

This afternoon …

14:00	**Meeting in front of the EuroACE's office** *(Rond-point Schuman)*
14:20	**Visit of Exemplary Building Luther** Transformation of a traditional Brussels house into 4 passive apartments
15:30	**Visit of Exemplary Building Quai du Hainaut** Retrofitting and transformation of the old Belle-Vue breweries into a hotel ce facilities
16:40	**Arrival at the EuroACE's office** *(Rond-point Schuman)* **End of the visit**

Rue Luther



Quai du Hainaut

Thank you

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More informations: www.bruxellesenvironnement.be/batimentsexemplaires