

Renovating Buildings to Meet Energy Union Goals

Maximising the Multiple Benefits for EU Citizens

“Quizzing the Stakeholders”

FINAL QUESTIONS & ANSWERS



17th June 2015

Session 1:

The Cost of Non-Renovation in the EU

- 1) Approximately what percentage¹ of imported gas is consumed in buildings?
 - A. 25%
 - B. 43%
 - C. **61%**
 - D. 79%
- 2) Approximately how much added value² does the buildings sector currently bring to the EU economy each year?
 - A. €375 billion
 - B. **€425 billion**
 - C. €475 billion
 - D. €525 billion
- 3) If ambitious renovation programmes were rolled out in the EU, how many new, local jobs³ would be created across the EU in the year 2020?
 - A. 1.2 million
 - B. 1.4 million
 - C. **2.0 million**
 - D. 2.4 million
- 4) Traffic accidents take more than 1,700 lives each year in the UK. But cold homes also cause excess winter deaths in the UK⁴. How many excess winter deaths are there, on average, each winter in the UK?
 - A. 1,700
 - B. 3,400
 - C. **7,800**
 - D. 10,600
- 5) In 2013 the EU imported about 53% of its energy needs. Approximately how much did this cost the EU economy⁵?
 - A. €320 billion
 - B. **€400 billion**
 - C. €480 billion
 - D. €560 billion

¹ ECOFYS (2014) *Deep renovation of buildings: An effective way to reduce Europe's energy import dependency* Available at: http://www.eurima.org/uploads/ModuleXtender/Publications/117/Ecofys_XI_Energy_dependency_report_final_20_05_2014.pdf

² See JRC (2015) *Energy Renovation: The Trump Card for the New Start for Europe* Available at:

<http://iet.jrc.ec.europa.eu/energyefficiency/publication/energy-renovation-trump-card-new-start-europe> For comparison, this is more than the total contribution of the tourism sector to the EU economy

³ Renovate Europe Campaign based on BPIE Report *Europe's Buildings Under the Microscope*

⁴ Retrieved from Energy Bill Revolution website at: http://www.energybillrevolution.org/fuel-poverty/#section_winterdeaths

⁵ European Commission, *European Energy Security Strategy*, 2014

Session 2: Financing Building Renovations



- 1) According to the EEFIG report,⁶ what are the two main drivers for the supply of energy efficiency finance in buildings?
 - A. Standardisation and price of energy
 - B. Availability of data and price of energy
 - C. **Regulatory stability and standardisation**
 - D. Regulatory stability and transaction costs

- 2) Only one of the following pairs of financial instruments is considered, by the Energy Efficiency Financial Institutions Group (EEFIG) to be mature in the EU. Which pair?
 - A. Risk-sharing facilities and Energy services agreements
 - B. Leasing and Green bonds
 - C. Energy performance contracting and EPC factoring funds
 - D. **Dedicated credit lines and direct and equity investments in real estate and infrastructure funds**

- 3) Which of the following approaches is NOT part of the EEFIG Report?
 - A. **Mandatory monitoring of the energy performance of buildings in operation phase**
 - B. Embedding energy efficiency in standard risk assessment methods
 - C. Using public budgets to leverage in private investment in energy efficiency
 - D. Facilitating on-bill repayment and on-tax finance mechanisms

- 4) What is the average observed increase in the value of a property in the EU for a one-letter improvement in energy performance⁷?
 - A. 2%
 - B. **4%**
 - C. 8%
 - D. No change in value

- 5) In order to achieve the global target of keeping global warming below 2°C, how much does the EU need to invest in energy efficiency of buildings in the period 2014-2035:
 - A. €1,300million
 - B. €13,000 million
 - C. €130,000 million
 - D. **€1,300,000 million**

⁶ *Energy Efficiency – the First Fuel for the EU Economy* by the EEFIG published February 2015 and available at: https://ec.europa.eu/energy/sites/ener/files/documents/2014_fig_how_drive_finance_for_economy_1.pdf

⁷ From the Study for the European Commission published in 2013: http://ec.europa.eu/energy/efficiency/buildings/doc/20130619-energy_performance_certificates_in_buildings.pdf

Session 3: Reasons to Renovate

- 1) Buildings with poor energy performance are often cold, damp and leaky. How many EU citizens⁸ currently live in such damp and unhealthy homes?
 - A. 20 million
 - B. 50 million
 - C. **80 million**
 - D. 110 million

- 2) What are the two main drivers⁹ for EU citizens to renovate their homes?
 - A. Reduction in energy costs and improved attractiveness of the home
 - B. Improved indoor air quality and daylight
 - C. Improved functionality and attractiveness of the home
 - D. **Improved comfort and reduction of energy costs**

- 3) Why should companies in the EU urgently invest in renovating their buildings?
 - A. **Because this boosts employees health, well-being and productivity**
 - B. Because this is part of the new EU guidelines on Corporate Social Responsibility;
 - C. Because non efficient and non-comfortable buildings will be banned by 2020 ;
 - D. All of the above

- 4) What percentage of European citizens express above average concern for unhealthy indoor air quality?¹⁰
 - A. 11 %
 - B. 23 %
 - C. **59 %**
 - D. 75 %

- 5) What percentage of Europeans have made changes to their home to address energy costs within the last five years? ¹¹
 - A. 12%
 - B. 26%
 - C. **51 %**
 - D. 77%

⁸ Fraunhofer white paper,

Towards an identification of European indoor environments' impact on health and performance - homes and schools, 2014.

http://www.ibp.fraunhofer.de/content/dam/ibp/en/documents/Press-releases/Velux-Prestudy_WhitePaper_141205_amended.pdf

⁹ Healthy Homes Barometer, European Survey by the VELUX Group, 2014.. http://www.velux.com/SiteCollectionDocuments/PDF-Documents/VELUX_HHB_18032015.pdf

¹⁰ Healthy Homes Barometer, European Survey by the VELUX Group, 2014.. http://www.velux.com/SiteCollectionDocuments/PDF-Documents/VELUX_HHB_18032015.pdf

¹¹ Healthy Homes Barometer, European Survey by the VELUX Group, 2014.. http://www.velux.com/SiteCollectionDocuments/PDF-Documents/VELUX_HHB_18032015.pdf