ECTP Conference 2011

Energy Efficient Buildings: Roadmapping

Updating the vision

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WG Participants: Acciona, Arup, Bouygues, CSTB, Dappolonia, EDF, Heidelberg Cement, Mostostal, Saint-Gobain, Stiebel-Eltron, Solintel, Philips, TNO, VTT, ZAG.
E2BA Vision: The Challenge

• The built environment:
  • 40% of total EU energy consumption
  • 1/3 of GHG in Europe
• Even new buildings far from being all energy efficient
• Very small replacement rate (1 to 2% per year)
• The major challenge - Renovation of the existing stock
• Many experiments made but actual impacts limited

Business as usual is not an option!
E2BA Vision: The Challenge

• EU is on course to achieve only half of the 20/20/20 goals. The urgency even become more pronounced.
• Ensure that emissions are cut at least cost.
• Support and accelerate the impact of the EPBD recast and broader policies like Smart Cities.
• The economic and financial crises have become still more severe, implying that a more competitive building and construction sector creating new jobs is needed.
E2BA Vision: The Challenge

- **Accelerate.** The sector feels shares a responsibility
- Energy efficiency should become a **business opportunity.** Addressing the benefits/costs ratio and:
  - **User centric** approach. Increased client satisfaction.
  - **Removing barriers** that hinder innovation such as legislation and risks.
  - Promote partnerships in the value chain to promote innovation and business opportunities.
- The **transformation** into a innovative sector, attractive to young people because it links innovation to solving societal problems.

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E2BA Vision: The ambition towards 2020

• Energy efficiency has become (big) business in EU market.
• New building are at least zero-energy and new districts have become energy efficient.
• The sector has an advanced, high-tech and innovative profile, attracting young people and worldwide talent.
• R&D investments in the sector have increased to a stable and sufficient level.
• The building and construction sector has paved the way for a drastic renovation of the existing European stock
• New dimension to PPP's: People (job creation), Planet (energy, CO2 and climate) and Profit (competitiveness).

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E2BA Vision: Overall objective

“The overall objective of E2BA is to promote the creation of an active industry for the production, supply/distribution of advanced systems, solutions and added value services with a view to satisfy the needs on energy efficiency for the built environment, through the development and deployment of a full Research, Development and Innovation programme at EU level”

Need to develop a “knowledge management” of the existing solutions and to identify the best way to address the pending problems for which R&D is a necessity.
E2BA Vision: Some key aspects

- Promote smart **knowledge transfer** mechanisms specially for **SMEs**, promoting new business opportunities.
- **Speed up** the deployment of **key technologies** by developing a competitive industry
- Priority to **user centric** "plug & play" solutions, **affordable**, **scalable** and **resource efficient** in the whole life cycle, healthy and safe.
- **Fast, cheap and replicable** solutions for renovating the existing building stock and sustainable energy generation.

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This is an open process, so we are waiting your contribution!

Thank you for your attention!!

Towards an advanced and innovative industry for an energy efficient built environment

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