



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.



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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 !



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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.



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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 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.



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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.



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