Adoption of highly energy-efficient housing

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Adoption of passive houses

A transition is needed towards a volume market of highly energy-efficient housing. This requires the introduction, adoption and diffusion of technology, business model and policy innovations. The present work looks more closely at innovation barriers and opportunities regarding passive houses, examining case studies, while trying to learn from more advanced countries and regions.

How can the adoption of highly energy-efficient housing, such as passive houses, be increased?

Practical cases of technology innovation, business model innovation and policy innovation – focused on passive houses - are studied to analyze technological, social and policy factors that can stimulate or hinder innovation diffusion.

Recommendations for process and policy changes for going from introduction of innovative concepts and demonstration projects to volume market development of highly energy-efficient housing.

Research framework

Research model

Market forces

Publications

Passive house projects in Belgium; E Mlecnik & C Marrecau; IJETM, 2008.
Barriers and opportunities for labels..; E Mlecnik, HJ Visscher & JDM van Hal; Energy policy, 2010.
Adoption of highly energy-efficient renovation concepts; E Mlecnik; Open house international, 2010.
Van demonstratieprojecten naar volumemarkt; E Mlecnik & E Prendergast; BouwIQ, 2010.