

**German Danish Chamber of Commerce
&
InnoByg**

Conference

***LCA and energy renovation of buildings of
high architectural quality***

InnoBYG

The innovation network (2010-2014) for energy efficient and sustainable construction - InnoBYG - is a network activity for the construction industry in Denmark.

InnoBYG brings the industry together across professional competency. The network has focus on:

- knowledge sharing
- networking
- development of the industry.

InnoBYG addresses a number of societal and technical challenges related to energy efficiency and sustainability in the construction industry



InnoBYG

268 members:

- Companies
- Industry associations
- Authorities
- Knowledge institutions:
 - Danish Technological Institute
 - Aalborg University – with Danish Building Research Institute
 - The Danish Institute of Fire and Security Technology
 - Technical University of Denmark



InnoBYG

Activities:

- Development projects
- Project incubation support
- Matchmaking
- Dissemination:
 - 2 annual conferences,
 - on-site visits,
 - end-of-day meetings
 - study trips



InnoBYG – Development Projects

- Aktivering af bygningers konstruktion
- Brand og byggematerialer
- Bygherrens værdier ifm. energieffektivt og bæredygtigt byggeri
- Bæredygtig energirenovering
- Bæredygtige forretningsmodeller og systemleverancer
- Den bæredygtige byggeplads
- Udvikling af installationspakke



The background features a stylized design with a blue gear in the upper left, a yellow sun in the upper right, and a green plant with two leaves in the lower center. The background is divided into blue, white, yellow, and green sections.

Today's theme:

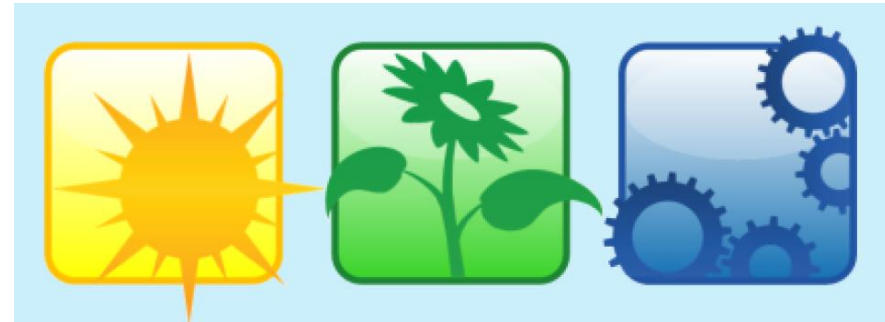
LCA and energy renovation of buildings of high architectural quality

EU: *Roadmap for moving to a competitive low carbon economy in 2050* (2011)

80% reductions of CO₂ emissions by 2050 compared to 1990

Cost-effective pathway:

- 25% reductions by 2020
- 40% reductions by 2030
- 60% reductions by 2050

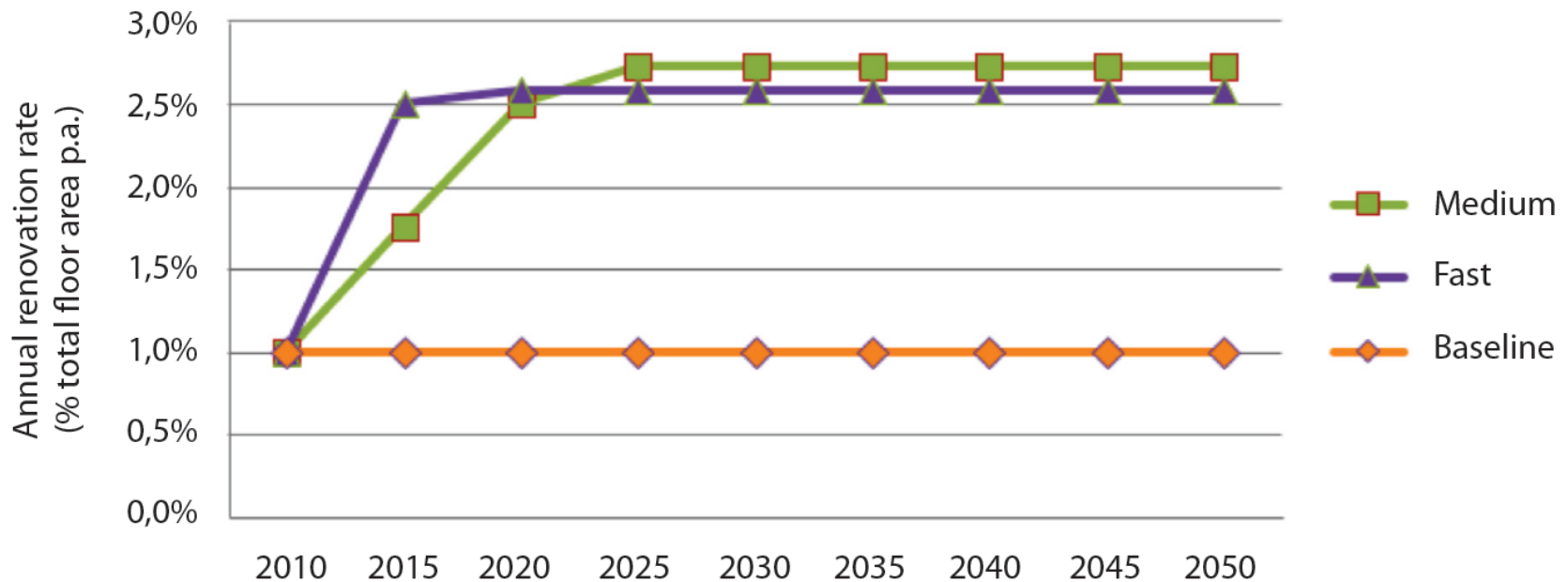


Danish government (“Vores Energi”, 2012)

- By 2035 Heating and electricity supply will be based entirely on renewable energy sources

EU: Roadmap for moving to a competitive low carbon economy in 2050

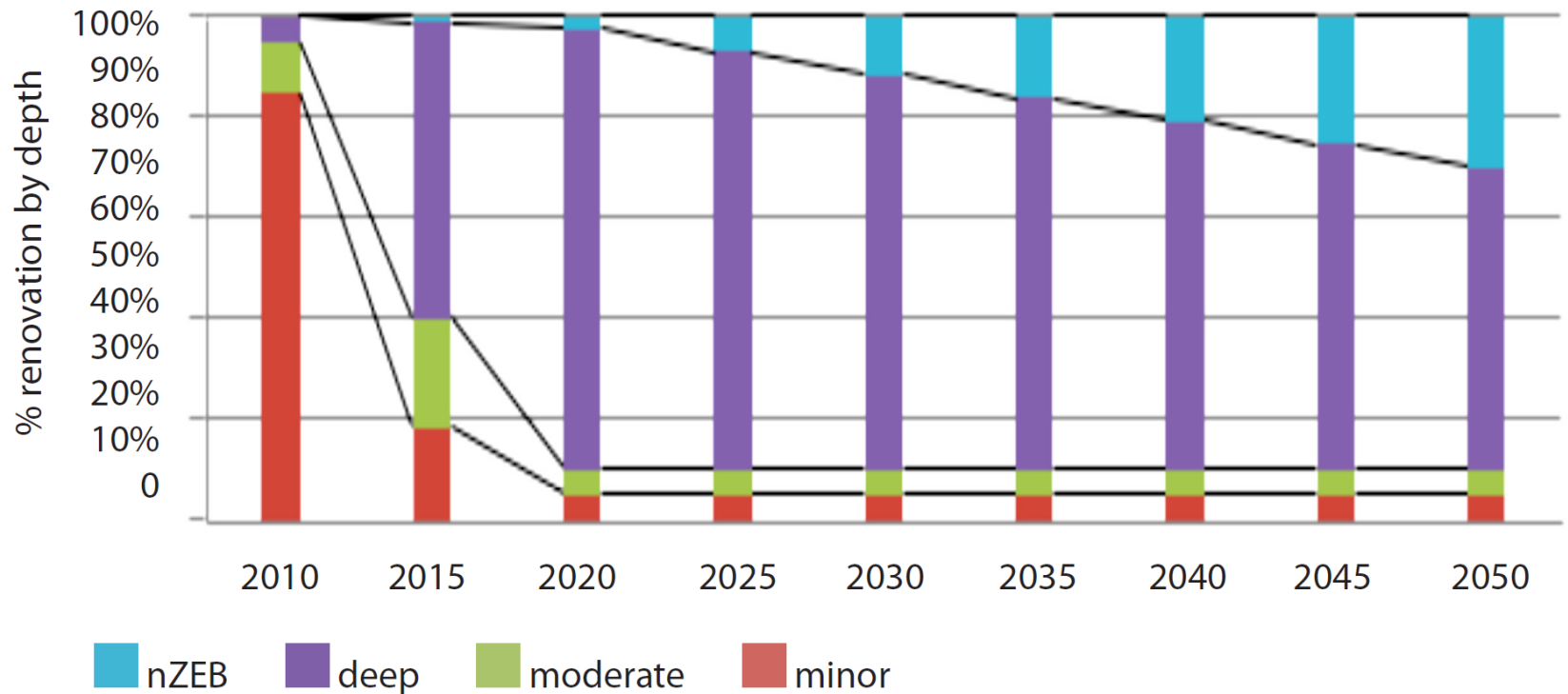
Required increase in renovation rate to achieve 90% CO₂ saving



BPIE - Building Performance Institute Europe

EU: Roadmap for moving to a competitive low carbon economy in 2050

Required increase in renovation depth to achieve 90% CO₂ saving



Energy renovation

What about architecture?

What about building products?

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Innovationsnetværket for
energieffektivt og bæredygtigt byggeri



Program:

- 08:30 Registration and coffee
- 09:00 Welcome
- 09:15 Energy Efficiency in Germany at a Glance by Paul Rydzek, eclareon GmbH
- 09:30 Aarhus sees a green future ahead by Karen Margrethe Høj Madsen, Project Manager Aarhus Municipality
- 09:55 From vision to sustainability by Hanne Tine Ring, Rambøll
- 10:20 Networking Break
- 10:50 German products suitable for low energy/sustainable buildings by Fieger Lamellenfenster GmbH, Linzmeier Bauelemente GmbH, Matrix Architektur GmbH and Parabel Energiesysteme GmbH
- 11:30 LCA and its use in practice By Dr. Christian Piehl, DGNB
- 12:10 LCA and Environmental Product Declaration (EPD) - process, legal requirements, EU by Mathias Høeg, Danish Technological Institute
- 12:35 Lunch and networking



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Program:

- 13:35 Panel session - Active House - buildings combining comfort, energy and sustainability
- Simone Magdolen, Researcher, Fraunhofer IBP and Munich University of Applied Sciences
 - Projektkoordinatorin Simona Weisleder, Stadt im Klimawandel, IBA DOCK
 - Professor, Carsten Rode , DTU Civil Engineering,
 - Vibeke Grupe Larsen, Chief Consultant, Viegand Maagøe and owner of VGLCPH Aps (also panel moderator)



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Program:

- 14:20 Energy optimisation in the Danish state. How Vester Voldgade 123 became the biggest passive house in the world by Eva Kunckel, Danish Building & Property Agency
- 14:45 Energy efficient refurbishment of heritage-protected buildings By Dr. Roswitha Kaiser, the State Conservation Office of Hessen, Germany
- 15:10 Networking Break
- 15:30 German products suitable for low energy/sustainable buildings by GeoClimaDesign AG, Kampmann GmbH, Koch Architekten 4greenArchitecture and Pural GmbH & Co. KG.
- 16:10 Dilemmas when renovating existing buildings of high architectural value by Julian Weyer, Partner, Architect maa, C.F Møller
- 16:35 Recapitulation followed by networking cafe
- 17.30 Thank you for today

