

Decarbonising the European heating and cooling market.

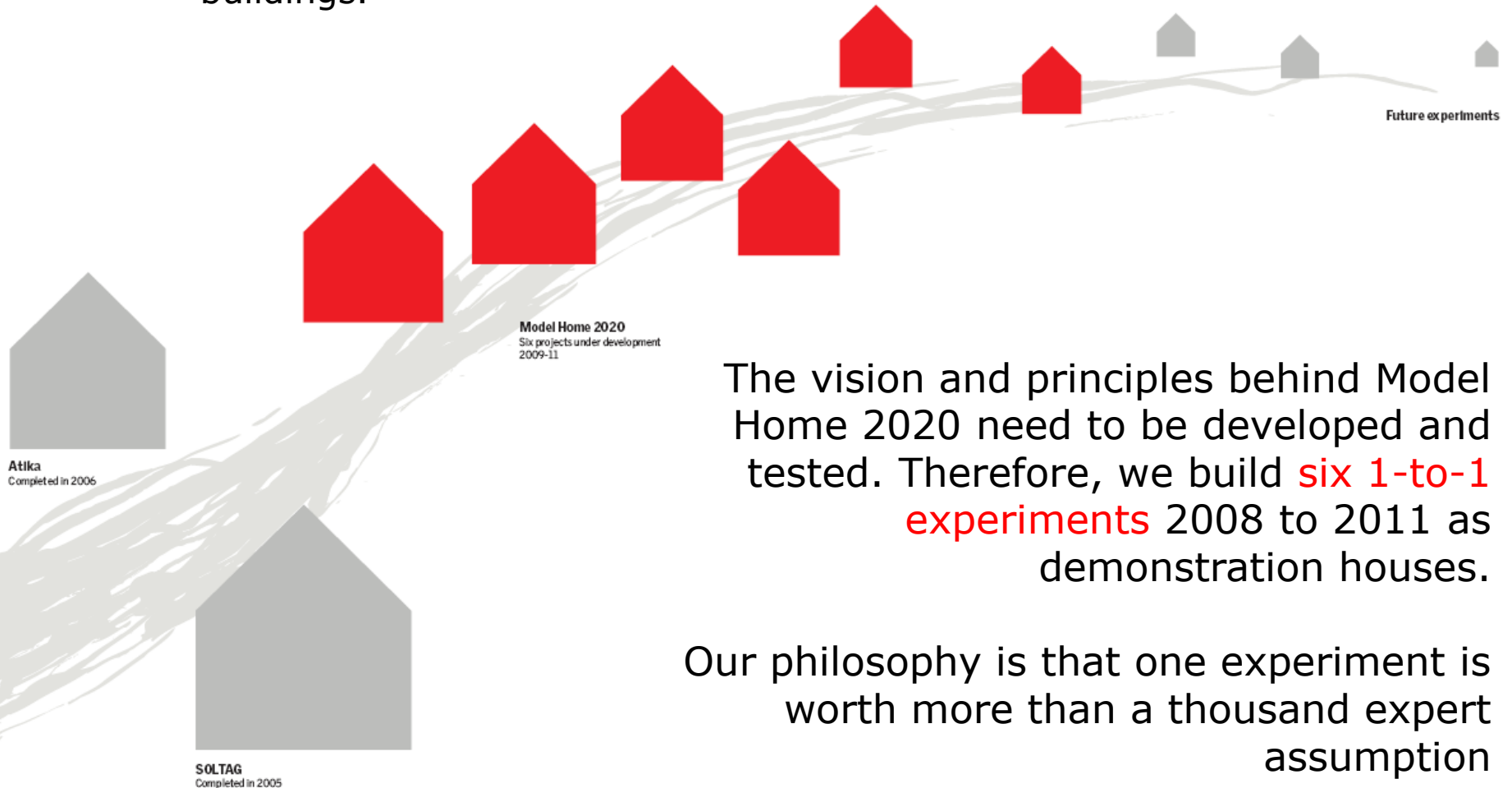
Active houses – Model Homes 2020

Renewable Heating and Cooling Conference
Copenhagen, April 26-27, 2012

Frank Hansen
Product Manager Solar Energy
VELUX A/S

Model Home 2020

- ▶ VELUX has launched the project Model Home 2020. It is our vision for **0 carbon** buildings with a high **livability**. This is part of a VELUX strategy to take active part in developing sustainable buildings.



The vision and principles behind Model Home 2020 need to be developed and tested. Therefore, we build **six 1-to-1 experiments** 2008 to 2011 as demonstration houses.

Our philosophy is that one experiment is worth more than a thousand expert assumption

Model Home 2020

- ▶ **Six 1-to-1 experiments** that demonstrate VELUX vision for **zero-carbon** buildings with a high **livability**, based on the **Active House** principles.

Carbonlight Home



Home for Life



Green Lighthouse



LichtAktiv Haus



Maison LuminAir



Sunlighthouse



Active House - the **vision**

The Model Home 2020 houses are built according to Active House principles

Energy - Contributes positively to the energy balance of the building

An Active House is energy efficient and all energy needed is supplied by renewable energy sources integrated in the building or from the nearby collective energy system and electricity grid.

Indoor Climate - Creates a healthier and more comfortable life for the occupants

An Active House creates healthier and more comfortable indoor conditions for the occupants and the building ensures generous supply of daylight and fresh air. Materials used have a positive impact on comfort and indoor climate.

Environment - Has a positive impact on the environment

An Active House interacts positively with the environment by means of an optimised relationship with the local context, focused use of resources, and on its overall environmental impact throughout its life cycle.

Active House Vision

Buildings that give more than they take...

Our vision is to create healthier and more comfortable buildings without impacting negatively on the environment

Energy

Contributes positively to the energy balance of the building

A Venn diagram consisting of three overlapping circles in shades of green. The top circle is labeled "ENERGY", the bottom-left circle is labeled "INDOOR CLIMATE", and the bottom-right circle is labeled "ENVIRONMENT". The circles overlap in the center and at the intersections between two circles.

ENERGY

Indoor Climate

Creates a healthier and more comfortable life for the occupants'

INDOOR CLIMATE

ENVIRONMENT

Environment

Has a positive impact on the environment

In other words...

Active House Alliance puts the **end-user** in the centre by merging **environmental** friendly solutions with the highest possible **comfort**



Ambition

Active House Alliance



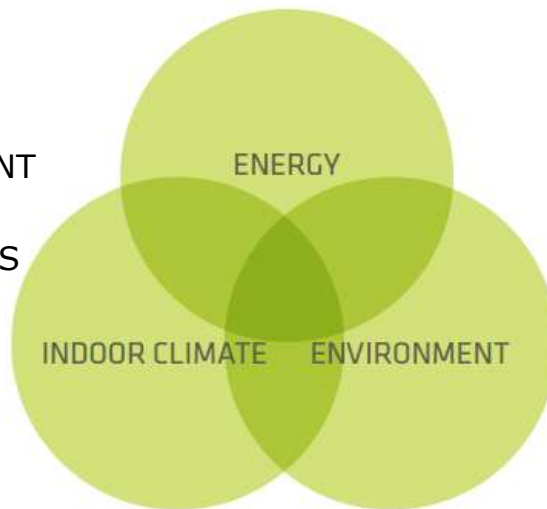
"It is our ambition that the Active House becomes the future principle for new buildings and renovation worldwide"



Active House Specification

Quantitative parameters

- ENERGY PERFORMANCE
 - ENERGY DEMAND
 - ENERGY SUPPLY
-
- LIGHT & VIEW OUT
 - THERMAL ENVIRONMENT
 - INDOOR AIR QUALITY
 - NOISE AND ACOUSTICS



English version



German version

- NON-RENEWABLE ENERGY RESOURCES
- EMISSIONS TO AIR, SOIL AND WATER
- FRESHWATER CONSUMPTION AND WASTE WATER

activehouse.INFO
NETWORK AND KNOWLEDGE SHARING

HOME PRESS LOGIN

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VISION, SPECIFICATION,
WHO IS BEHIND, FACTS

CASES
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AN ACTIVE HOUSE INTERACTS POSITIVELY WITH THE ENVIRONMENT

Active House
Buildings that give more than they take

Active House is a vision of buildings that create healthier and more comfortable lives for their occupants without negative impact on the climate - moving us towards a cleaner, healthier and safer world.

[READ THE SPECIFICATION](#) ▶

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NEWS & KNOWLEDGE

17. FEBRUARY 2012

HUNGARY'S FIRST ACTIVE HOUSE CONFERENCE DREW A CROWD OF OVER 300 ARCHITECTS

NEWS NORMANN SLOTH

Held at three venues between 27 September and 11 October, a series of talks under the motto „from intelligent buildings to active house“ drew more than 300 participants, mostly from...

HIGHLIGHTED CASES

SPOTLIGHT



Ms Connie Hedegaard - the European Commissioner for Climate Action



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