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Smart, cost effective, next generation buildings

Kurt Emil Eriksen
Head of Active House and Strategic Projects
VKR Holding A/S

email: kee@vkr-holding.com

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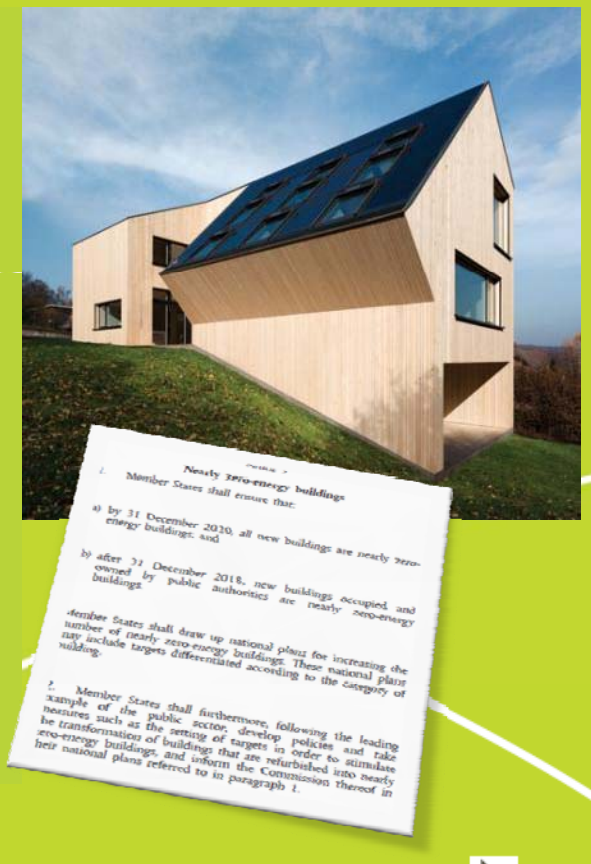
European Commission has high ambitions on security of supply, climate changes and creation of local job, therefore they have ambitious targets for 2020

- 20% reduction of CO_2
- 20% of the energy used, shall be renewable energy
- 20% energy efficiency

The member states are also required to implement legislation that require **nearly zero-energy buildings by end of 2020 – (**2018 for public buildings)



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40% of the energy used is used for heating and cooling of buildings

People spend 90% of our time in buildings, however up to 30 % of the building mass does not contribute to nor provide a healthy indoor climate

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Think of a vision – where buildings create healthier and more comfortable lives for their occupants without having a negative impact on the climate and environment – moving us towards a cleaner, healthier and safer world – this is the vision of Active House

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Active House
Buildings that give more than they take

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The long-term target is to develop Active House to become the future principle for new buildings and renovation.

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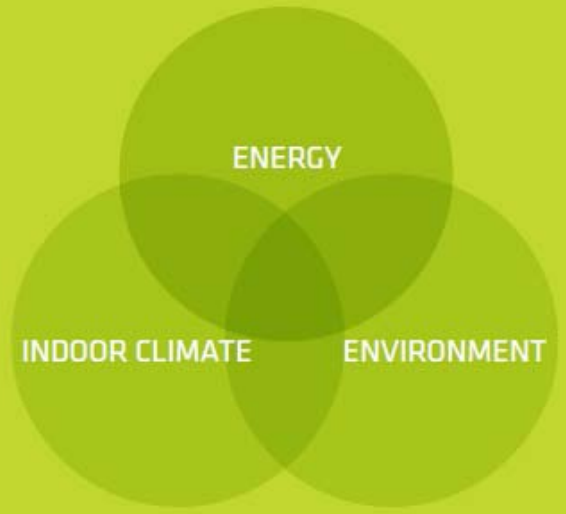
THE 3 PRINCIPLES



Technical specification for Active House is developed

ENERGY
- A building which is energy efficient and easy to operate
- A building which substantially exceeds the statutory minimum in terms of energy efficiency
- A building which exploits a variety of energy sources integrated in the overall design

INDOOR CLIMATE
- An indoor climate that promotes health, comfort and the sense of well-being
- A building which ensures good indoor air quality, an adequate thermal climate and appropriate visual and acoustic comfort
- An indoor climate which is easy for occupants to control and at the same time encourages responsible environmental behavior

ENVIRONMENT
- A building which exerts the minimum impact on environmental and cultural resources
- A building which avoids ecological damage and seeks to add to local biodiversity
- A building which is constructed of materials having a high recycled content and providing the ability of its own recycling or re-use

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STAKEHOLDERS

Partners in the Alliance

Building industry
E.g. architects, engineers, building manufacturers, construction companies and house manufacturers

Universities and knowledge centres
E.g. researchers within the construction sector and renewable energy

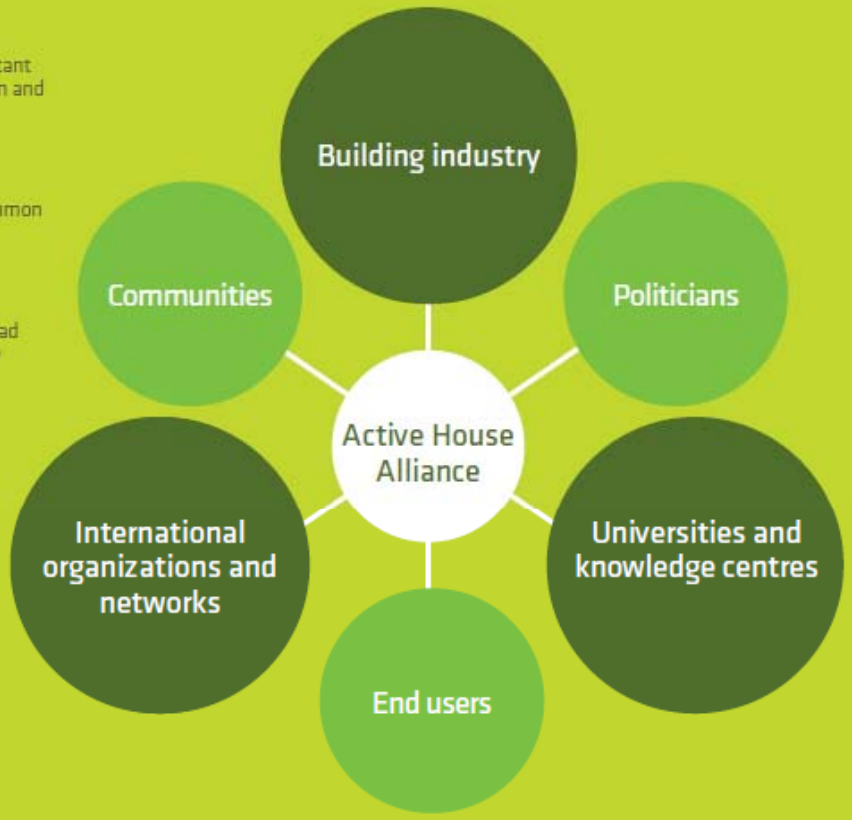
International organizations and networks
E.g. within the construction sector, health, environment and renewable energy

Partners in society

Local communities
By highlighting and showcasing important knowledge in new buildings, renovation and demonstration projects

Politicians on national, regional and international level
By enhancing their knowledge and common understanding of possible solutions in buildings

End users
By exchanging learnings of good and bad experiences and communicating newly developed solutions for buildings.



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PARTNERS IN THE ALLIANCE

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	Objectives	Activities and Deliverables
Knowledge sharing	Leverage existing knowledge through a strong alliance and facilitate cross-sector working groups.	• Annual general assembly • Topic based workshops for members • Training and webinars
Specification and demonstration	Create new knowledge, describe, illustrate and demonstrate the opportunities and attractiveness of Active Houses.	• Active House specifications for residential and non-residential buildings • Simple evaluation scheme of buildings • Demonstration buildings • Catalogue of design patterns and cases • Design and Assessment Tools
Communication	Influence positively on the full supply chain in the construction sector, politicians and legislators.	• Communicate with building users and specifiers • External conferences and symposiums • Training and webinars for specifiers • Influence positively on codes and legislation

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EXAMPLES OF CASES

ACTIVE HOUSE - RUSSIA
The First Active House in Russia is designed to set a new standard for residential house construction in Russia. The house design is based on the Active House principles.

SOLHUSET
Children in Hørsholm are playing in the most climate-friendly nursery in Denmark.

JADARHUS
One of the purposes of these ISOBO Aktiv houses is to test different technical solutions in one single building.

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Follow the development , contribute and join the alliance at www.activehouse.info

Contact:
kurt.emil.eriksen@activehouse.info
mikkel.skott.olsen@activehouse.info