



activehouse^{.INFO}
NETWORK AND KNOWLEDGE SHARING

Active House

- Buildings that gives more than they take

Active house meetings

Spring, 2014

Italy

Presented by:

Contacts:

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General Secretary

Active House Alliance,



Active House

- where did it start



EU 2020 plan (2007)

- 20% CO₂ reduction
- 20% Renewable energy
- 20% Energy efficiency

Energy Performance of buildings directive (2010)

- Nearly Zero Energy Buildings NZEB
- National roadmaps for implementation
- Medium targets

National implementation (2011=>)

- Interpretation of NZEB
- Develop methodology
- Update of legislation and requirement to buildings

Active House

- the situation of today



40% of the world's energy

- is used for heating and cooling of buildings
- and 90% of our building stock will still be in use by 2050

90% of our time

- is spent inside buildings,
- however up to 30% of the building mass does not provide healthy indoor climate.

Climate challenges are global,

- the resources become limited
- and the waste is growing

It is time to act NOW!

Existing technologies can make a difference already today.

Active House Vision

- buildings that gives more than they take



Comfort

- *creates a healthier and more comfortable life*



Energy

- *contributes positively to the energy balance of the building*

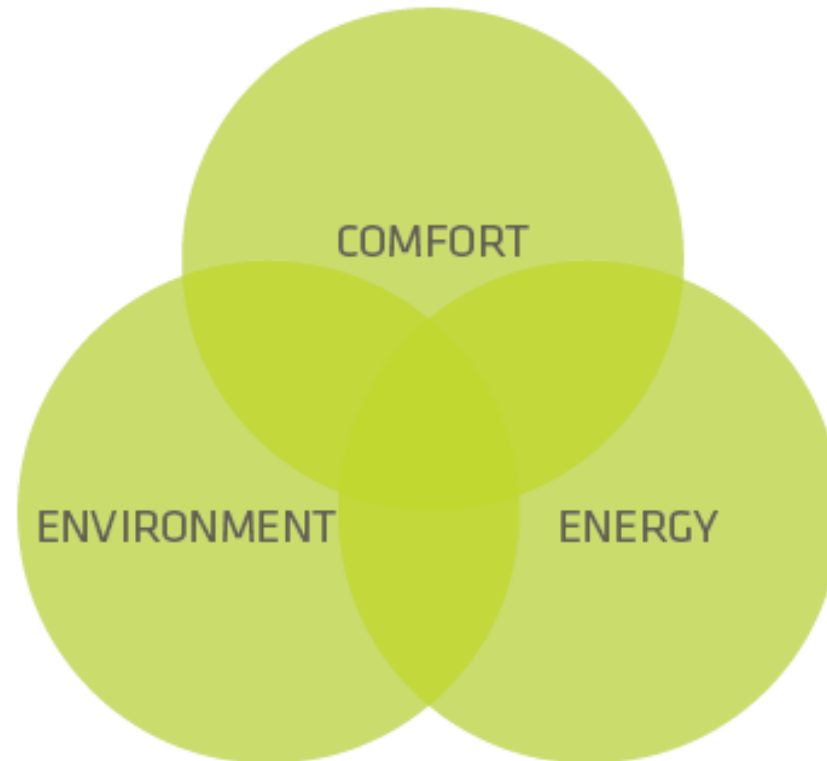


Environment

- *has a positive impact on the environment*

Active House Vision

- buildings that gives more than they take



Active House is a vision of buildings that create healthier and more comfortable lives for their occupants without impacting negatively on the climate

Active House Alliance

- members and target groups



Active House Specification

- buildings that gives more than they take

Quantitative Criteria

Ratings: 1 (best) – 4 (acceptable)

Comfort

- Daylight
- Thermal environment
- Indoor air quality

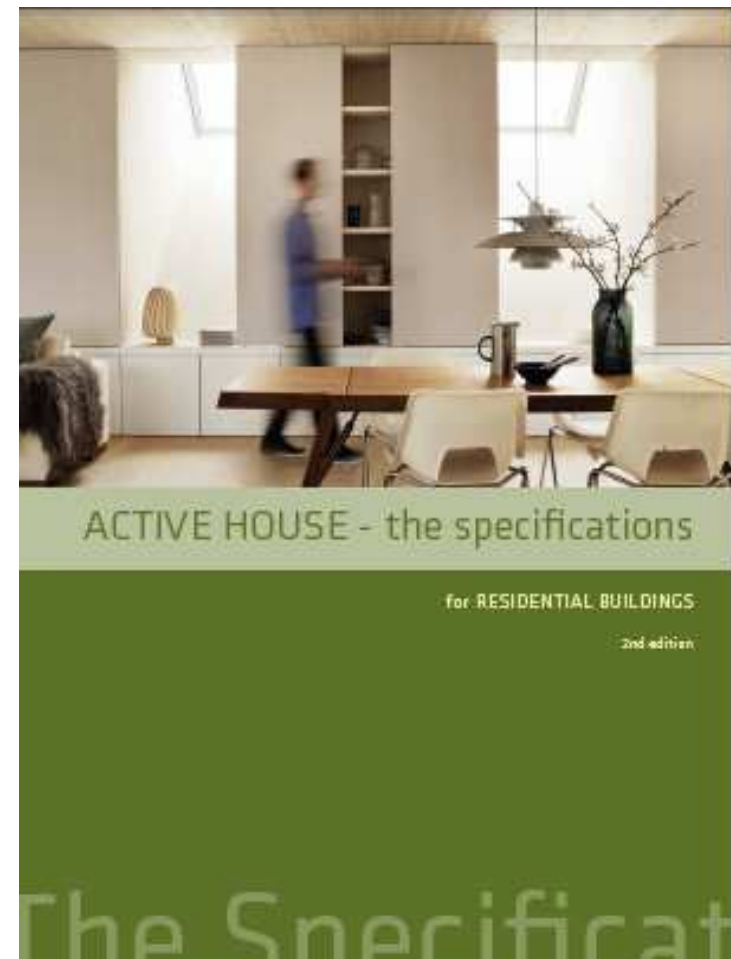
Energy

- Energy demand
- Energy supply
- Energy performance

Environment

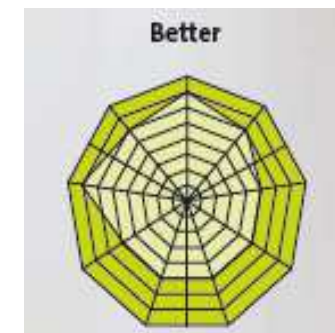
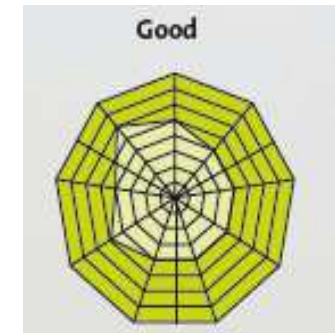
- Environmental loads
- Freshwater consumption
- Sustainable construction

Qualitative Criteria; checklist



Active House Specification

- performance in the radar diagram



Active House Alliance

- Highlighted projects from the homepage



COMPLETION: 13 DECEMBER 2012
BOTTICELLI PROJECT - CASA ECO PASSIVHAUS
MASCALUCA - CT - SICILY, ITALY
Botticelli Project intends to diffuse concept of Active House building which focus the Third Industrial Revolution (3I)



COMPLETION: APRIL 2009
HOME FOR LIFE
LISTRUP, DENMARK
Home for Life is inspired by a traditional Danish 1 of home has a relatively small surface with many p



COMPLETION: 2009
OSRAM CULTURE CENTRE
COPENHAGEN, DENMARK
A very attractive energy and indoor climate renovation of a former industrial use as a cultural centre as part of a neighbourhood renewal project.



COMPLETION: AUGUST 2011
CARBONLIGHT HOMES
NETHERLANDS, UNITED KINGDOM (GREAT BRITAIN)
The CarbonLight Homes provide bright, healthy living efficiency and a respect for the environment. This project understanding of sustainable living...



COMPLETION: UNDER CONSTRUCTION
HOTT | HOUSE OF TOMORROW
STRIJSEL, NB, NETHERLANDS
HOTT is dutch's first building completely designed Bimbouw and Active House. The layout is based residential program.



COMPLETION: OCTOBER 2009
SOLAR-ACTIVEHOUSE
KRAIG, AUSTRIA
Energy used for heating/hot water - whether it's from wood, coal, oil or natural gas has literally been burned up. A solution is the solar-activehouse



COMPLETION: MARCH 2012
DE POORTERS VAN MONTFOORT
MONTFOORT, NETHERLANDS
De Poorters van Montfoort are the first houses in the Netherlands to be built according to the principles of Active House, using a sustainable renovation VELUX Group and Danfoss...



COMPLETION: SEPTEMBER 2009
HOUSE OF THE FUTURE
REGENSBURG, GERMANY
How will we live and heat our homes in the future? Regensburg, Germany impressively demonstrates it



COMPLETION: NOVEMBER 2010
SOLHUSET - DENMARK'S MOST CLIMATE FRIENDLY NURSERY
HØRSHOLM, DENMARK
Children in Hørsholm can now play in the most climate-friendly nursery in Denmark



COMPLETION: JUNE 2012
ECO-ENERGY RETROFIT
BELFAST, UNITED KINGDOM (GREAT BRITAIN)
Retrofitting an 1896 solid wall terraced house within the Trias Energetica concept and Active House principles against a 1990 baseline



COMPLETION: SEPTEMBER 2011
ISOBO AKTIV - A HOUSE FOR TOMORROW
SANDNES, NORWAY
Jadarius was among the first in Norway to develop this category, ISOBO, was established in 2003. The new active design...



COMPLETION: OCTOBER 2010
SUNLIGHTHOUSE
PRESSELM, WEST, AUSTRIA
Sunlight House is Austria's first carbon-neutral single-family house. Nestle mountainous region, the home's sloping roof and architectural elements take advantage of the sun to...



COMPLETION: NOVEMBER 2009
ENERGYFLEXHOUSE
LISTRUP, COPENHAGEN, DENMARK
EnergyFlexHouse is two one's family houses, each of 2 a test building, and the other building is a one family house



COMPLETION: NOVEMBER 2010
LICHTAKTIV HAUS
HAMBURG, GERMANY
LichtAktiv Haus is an energy-efficient renovation of



COMPLETION: SEPTEMBER 2011
THE FIRST ACTIVE HOUSE IN RUSSIA
MOSCOW, RUSSIAN FEDERATION
The First Active House in Russia is designed to set a new standard for residential construction in Russia. The house design is based on the Active House concept



COMPLETION: 18.10.2013
GREAT GULF ACTIVE HOUSE
THOROLD, ONTARIO, CANADA
Great Gulf Active House was achieved through a collaboration of architects, the award-winning Toronto architecture firm committed to...



COMPLETION: 2010
LUMINA HOUSE
DŁUGOŁĘKA, POLAND
Lumina House is an energy efficient, ecological so comfortable, intelligent, optimal and affordable new



COMPLETION: OCTOBER 2012
TRANSFORMATION POORTERS VAN MONTFOORT
MONTFOORT, NETHERLANDS
- DE POORTERS VAN MONTFOORT - Light is an experience, air is the fuel, makes living possible.



COMPLETION: 2009
GREEN LIGHTHOUSE
COPENHAGEN, DENMARK
Green Lighthouse is Denmark's first public CO2 neutral building, achieved a year in a close public/private partnership.



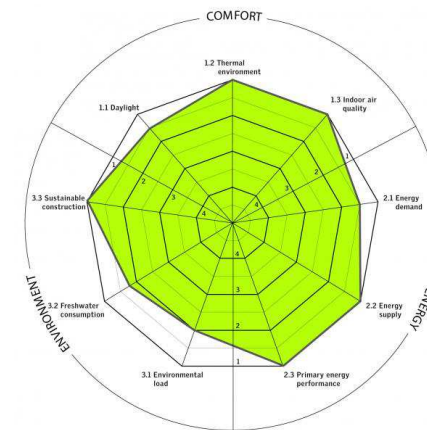
COMPLETION: APRIL 2012
NATURFREUNDEHAUS KNOFELE
SCHNIESSBERG/KNOFELSBÜHLE A-2552 HIRSCHWANG, AUSTRIA
The old hut burned down in April. New building significantly more energy friendly than the old one and more user-friendly for



COMPLETION: 2011
VELUXLAB
ROLAN, ITALY
VELUXLab is the first Italian nearly zero energy building in a University Campus in Bovisio Campus of Politecnico di Milano and it is a new laboratory for research

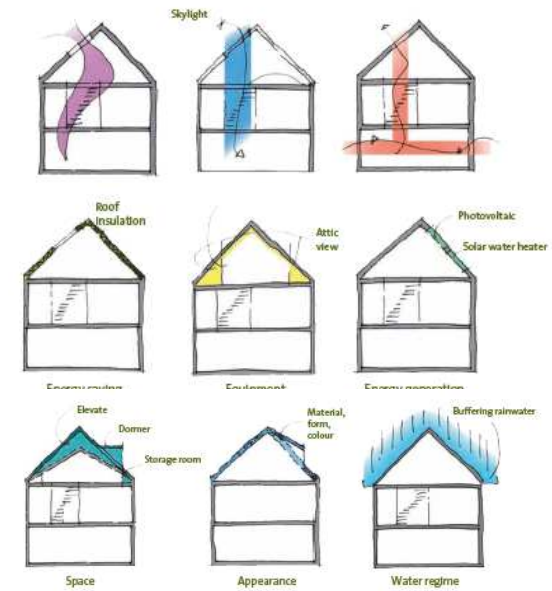
Active House

- Great Gulf Active House, Canada



Active House

- Montfoort Renovation, Netherland



The general Active House Radar is calculated based on the performance before and after the renovation.

■ Calculation performance after renovation

□ Calculation performance before renovation

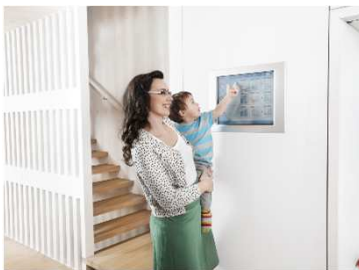
Active House

- Sunlight House, Austria



"Every morning we enjoy the first rays of sunshine on our patio windows. We have four double and three single doors that almost drag the garden into the house."

Dorfstetter family, living in Sunlighthouse



Active House

- ISOBO Active House, Norway



The Jadarhouse ISOBO Aktiv house is the first home in Norway that integrates the qualities of the traditional timber house and the principles of Active House to provide high living comfort and low energy consumption.



Active House

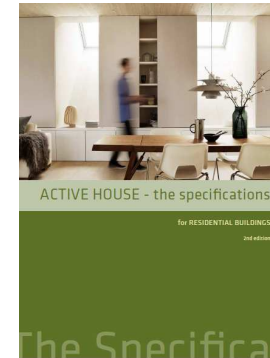
- www.activehouse.info

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NETWORK AND KNOWLEDGE SHARING



ACTIVE HOUSE NEWSLETTER 15/2013 OCTOBER 2013



UPCOMING EVENTS
Join us on October 24: Symposium Sustainable comfort in buildings in Budapest
The host of this year's Active House symposium is the development of nearly zero-energy buildings and the long term political targets for sustainable buildings in Europe. The topic is divided into three sessions:

- political targets and the human need for sustainable buildings with healthy comfort
- an overview of the Hungarian experience and examples of local projects
- a presentation of the Active House specifications and examples of international green architecture.

The symposium will set into a priority debate on sustainable buildings with focus on human well-being and comfort. Complete agenda: www.activehouse.info 19:30 - 17:30h



October 24: Webinar Multi-Comfort House in Belarus
Hear from the architect, Alexander Kucheravy, about his thoughts and process behind the design of the house. The Multi-Comfort House in Belarus is an residential project implemented by SAINT-GOBAIN, YELLUZ Belarus, Belarussian subsidiary of Saint-Gobain Fibres House LLC and designed by Belarussian architect Alexander Kucheravy. The house was opened for visitors on 23 May 2013. Find more information about the Multi-Comfort House in Belarus here.
Date and time: 24 October from 18:00 - 19:00 CET. Send us an email at activehouse@activehouse.info if you wish to follow the webinar.



Home: Passive House conference
The Active House Alliance participates at the sixth **Passive House** conference in Berlin, Germany. The conference will discuss the latest developments, future possibilities and barriers to cooperation within low energy buildings. The conference will take place from October 15-17 and discuss a presentation by Christian Obereggsperger, President of the Active House Alliance for buildings.



NEWS: Active House open in Canada
The Great Gulf Active House in Canada opens on October 16. Heide Bohn Abrahamson, the Danish ambassador to Canada will be the guest of honor at this official opening. Follow the building through LUGG.ca/active. If you wish to attend RSVP to activehouse@activehouse.info



Active House Alliance nominated in Denmark
The national Danish radio and the newspaper "Information" launched a national project with the purpose of sharing knowledge about sustainable projects which are created by citizens, businesses and organizations. More than 400 projects were presented. The Active House Alliance made it to the final list as one of 27 projects.



CESBA
CESBA is on the one hand a methodology to assess existing and new buildings and on the other hand a framework of EU projects to reach higher convergence by a common process. Active House and projects in 2013 membership will be significant.



Sustainable Buildings: an EU Commission initiative
The European Commission wants to gather ideas and additional information on the possible implementation of EU wide measures to achieve better environmental performance of buildings. The Active House Alliance has an excellent opportunity. Hear and address your views to the European Commission.



Body warmer
During the summer, the Active House Alliance gives presentations and organized site events at several European conferences on sustainable building, among others: **CLIMATE11** and **SB12** both organized in Prague. The **VERBODEN TOEGANG TOEGANG** in Almere, as well as being present at **ELAB** in Munich.



Thank you

Join the alliance and follow the development www.activehouse.info

Contact the secretariat at secretariat@activehouse.info