



Active House

- Buildings that gives more than they take

Active house meetings

Spring, 2014

Italy

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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*

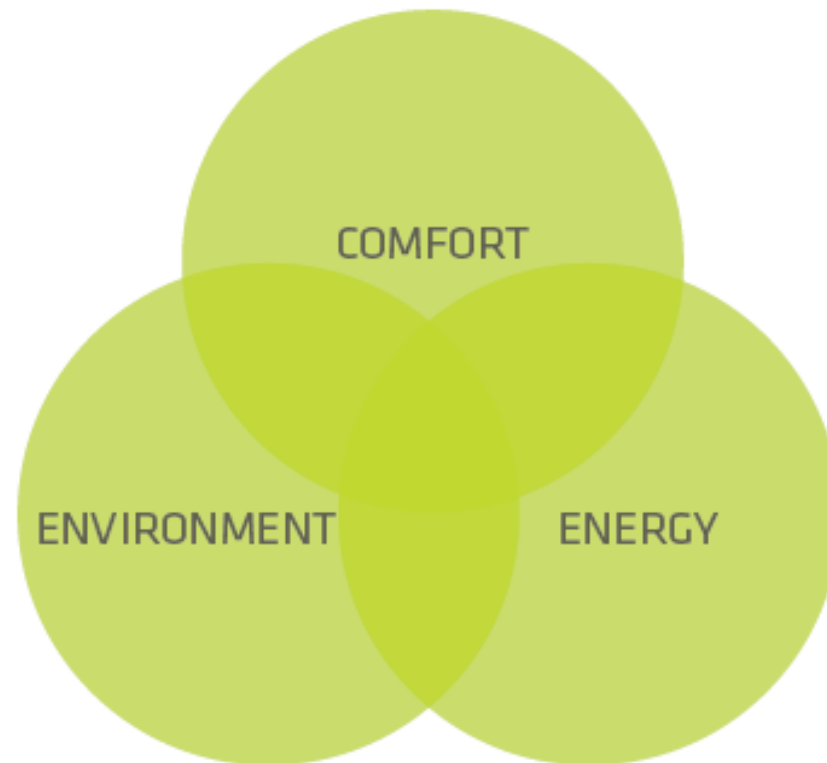


Environment

– *has a positive impact on the environment*

Active House Vision

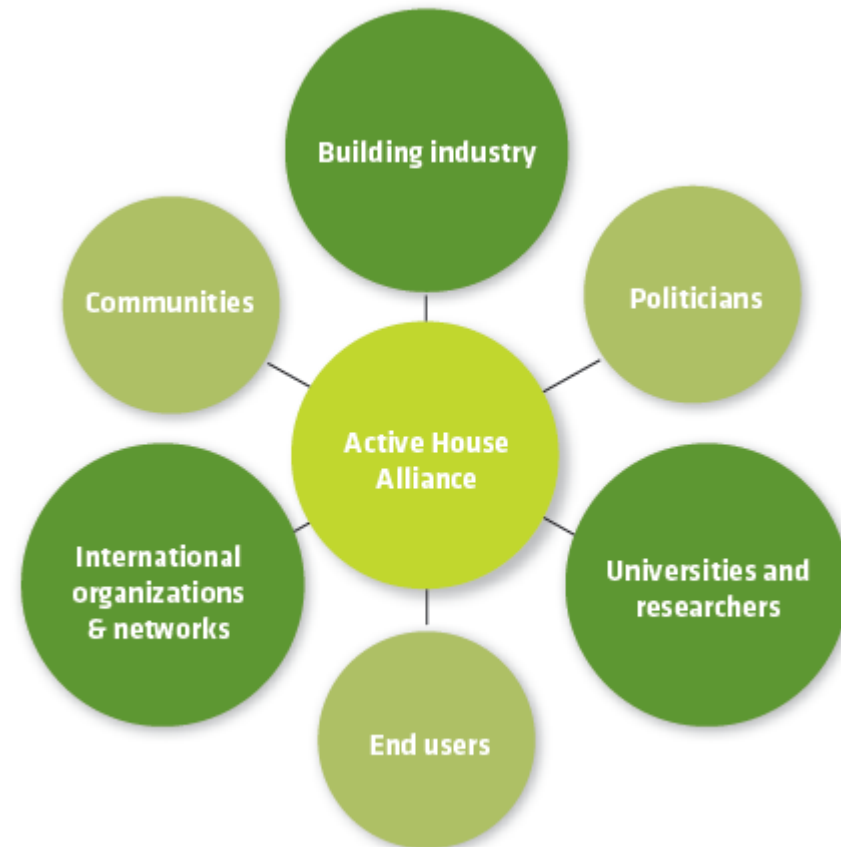
- buildings that gives more than they take



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

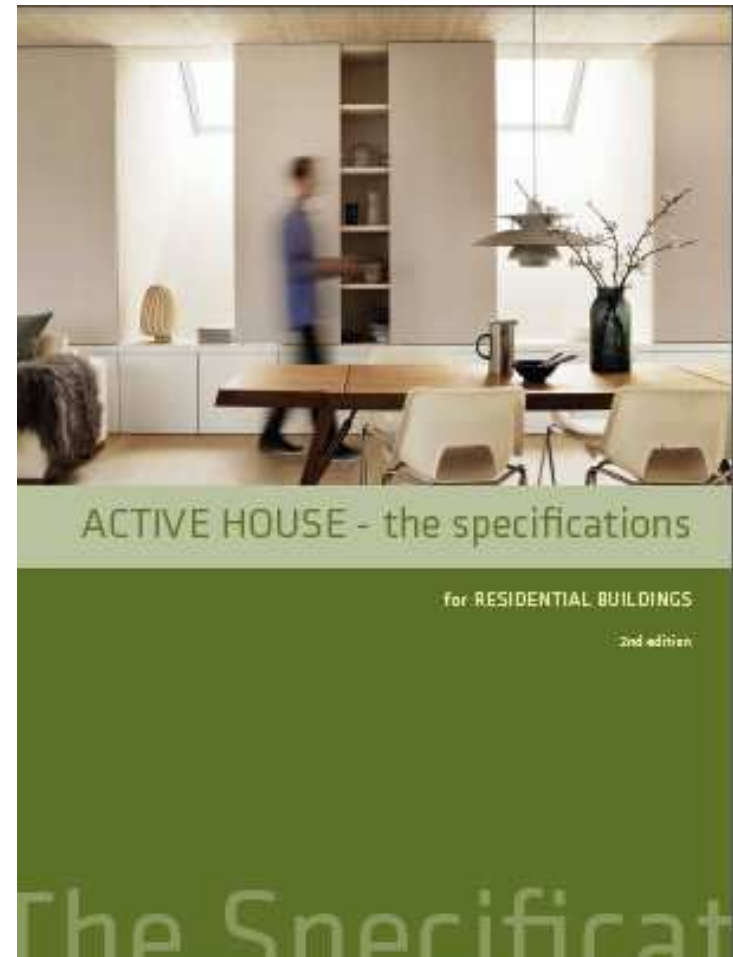
Energy

- Energy demand
- Energy supply
- Energy performance

Environment

- Environmental loads
- Freshwater consumption
- Sustainable construction

Qualitative Criteria; checklist



Active House Specification

- performance in the radar diagram

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Good



Better



Best



Active House Alliance

- Highlighted projects from the homepage



COMPLETION: 13 DECEMBER 2012
BOTTICELLI PROJECT - CASA ECO PASSIVHAUS -
MASCALUCCIA - CT - SICILY, ITALY
Botticelli Project intends to diffuse concept of Active House building which focus the Third Industrial Revolution (4)



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
KETTENING, UNITED KINGDOM (GREAT BRITAIN)
The CarbonLight Homes provide bright, healthy living s efficiency and a respect for the environment. This proj understanding of sustainable living...



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



COMPLETION: OCTOBER 2008
SOLAR-ACTIVEHOUSE
KRAIG, AUSTRIA
Energy used for heating/hot water - whether it's from wood, coal, oil or natu 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 Net principles of Active House, using a sustainable renov VELUX Group and Danfoss...



COMPLETION: SEPTEMBER 2008
HOUSE OF THE FUTURE
REGENSBURG, GERMANY
How will we live and heat our homes in the future? Regensburg, Germany impressively demonstrates i



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



COMPLETION: JUNE 2012
ECO-ENERGY RETROFIT
SALFORD, 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 TI
SANDVIG, NORWAY
Jadismus was among the first in Norway to develop this category, ISOBO, was established in 2003. Th new active design...



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



COMPLETION: NOVEMBER 2008
ENERGYFLEXHOUSE
NÅSTRUP, COPENHAGEN, DENMARK
EnergyFlexhouse is two one's family houses, each of 1 a test building, and the other building is a one family h



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 re construction in Russia. The house design is based on the Active House s



COMPLETION: 15.10.2012
GREAT GULF ACTIVE HOUSE
THOROLD, ONTARIO, CANADA
Great Gulf Active House was achieved through a collab architects, the award-winning Toronto architecture firm committed to...



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



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



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



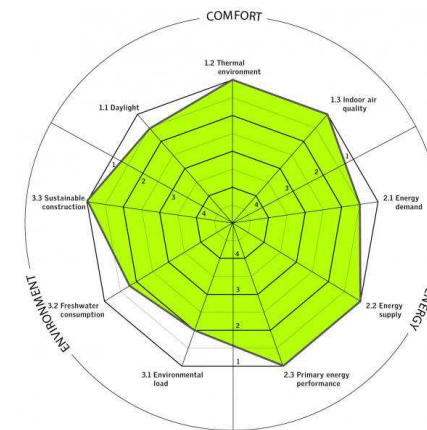
COMPLETION: APRIL 2012
NATURFREUNDEHAUS KNOFELE
SCHNIESSBERG/KNOFELBERG A-1052 HIRSCHWANG, AUSTRIA
The old hut burned down in April. New building shi friendly than the old one and more user-friendly for i



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

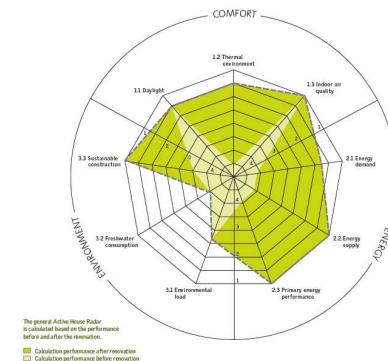
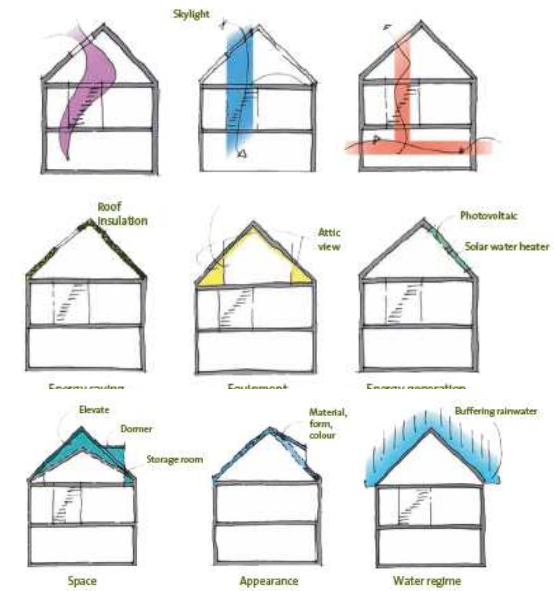
Active House

- Great Gulf Active House, Canada



Active House

- Montfoort Renovation, Netherland



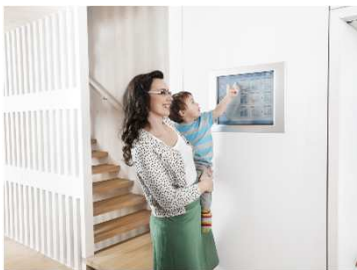
Active House

- 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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CASES
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AN ACTIVE HOUSE HAS A HEALTHY INDOOR CLIMATE

The specifications define 9 parameters that have to be evaluated when designing an Active House. The Active House radar illustrates the performance of the building.

Both are absolutely free to use.

SPECIFICATIONS

READ THE SPECIFICATIONS ►

CREATE A RADAR ►

NEWS & KNOWLEDGE

16. OCTOBER 2013
ACTIVE HOUSE COMES TO CANADA
NEWS [5] TIFFANY FUHLER
October 16: Opening of the Great Gulf Active House in Canada. It is built in Thorold, Ontario, a community located near the Niagara Region and roughly 90 minutes west from Toronto. This

13. OCTOBER 2013
FREE WEBINAR OCTOBER 24: MULTI-COMFORT HOUSE IN BELARUS
NEWS [5] TIFFANY FUHLER
Hear from the architect, Alexander Kucheravsky, about his thoughts and process behind the design of the house. The Multi-Comfort House in Belarus is an international project implemented by SAINT-GOBAIN...

9. OCTOBER 2013
REHVA JOURNAL
NEWS [5] TIFFANY FUHLER
REHVA Journal is a technical, practical journal for the HVAC industry professionals. It is read by Designers, Consultants, Manufacturers, Investors, Mechanical Contractors, Sales and Representative...

9. OCTOBER 2013
NORDIC PASSIV HOUSE CONFERENCE OCTOBER 15-17 IN GÖTEBORG
NEWS [5] TIFFANY FUHLER
For the 6th time Nordic and European experts will present and discuss the latest developments, future possibilities and barriers to overcome within platform...

30. SEPTEMBER 2013
ENGLISH SYMPOSIUM IN BUDAPEST ON OCTOBER 30TH
NEWS [5] TIFFANY FUHLER
PROGRAM has been updated and is now complete. REGISTER for € 39,00. The topic of the symposium is the development of Nearly Zero-Energy buildings and the long term political targets for...

HIGHLIGHTED CASES

COMPLETION: DECEMBER 2012
TRANSFORMATION POORTERS VAN MONTFOORT
MONTFOORT, NETHERLANDS
- DE POORTERS VAN MONTFOORT - Light is an experience, air is the future and space makes living possible.

COMPLETION: NOVEMBER 2010
SOLHUSET - DENMARK'S MOST CLIMATE FRIENDLY NURSERY
HORSHOLM, DENMARK

DOWNLOAD
THE SPECIFICATION

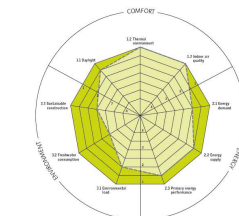
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OWN RADAR

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ACTIVE HOUSE - the specifications



ACTIVE HOUSE NEWSLETTER 15/2013 OCTOBER 2013

UPCOMING EVENTS

Join us on October 20: **Temperatures: Sustainable comfort in buildings in Budapest**
The topic 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
- on the basis 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 end with a plenary debate on sustainable buildings with focus on human well-being and comfort. Complete agenda: Participation fee: € 19,00 - 75,00/seat

October 24: Webinar Multi-Comfort House in Belarus
Hear from the architect, Alexander Kucheravsky, about the thoughts and process behind the design of the house. The Multi-Comfort House in Belarus is an international project implemented by SAINT-GOBAIN, VELLUX Belarus. Documentary: Saint-Gobain Green House LLC and designed by Belarusian architect Alexander Kucheravsky. The house was opened for visitors on 23 May 2013. Find more information about the Multi-Comfort House in Belarus here: www.saint-gobain.com
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.

Helsinki Passive House conference
The Active House Alliance participates in the sixth **PASSIVHOUSE** symposium, which focuses on the latest developments, future possibilities and barriers to overcome within low energy buildings. The conference will take place from October 15-17 and include a presentation by Carsten Christophers-Pedersen on the Active House vision for buildings.

NEW!
Active House opens in Canada
The Great Gulf Active House in Canada opens on October 16. Hans-Berit Abrahamson, the Danish ambassador to Canada will be the guest of honor at this official opening. Follow the building through LUGS.net. If you wish to attend RDVP 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 phase 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 principles of the two workshops to be held.

Sustainable Buildings: an EU Commission initiative
The European Commission wants to gather ideas and additional information on the possible introduction of EU wide measures to achieve better environmental performance of buildings. The Active House Alliance has given comments. Read our national contribution to the European Commission.

Bony summer
During the summer, the Active House Alliance gives presentations and organized side events at several European conferences on sustainable buildings, among others: **CLIMATE** and **RELI** both organized in Prague, **THE UNIVERSITY OF SUSTAINABLE BUILDINGS** in Athens, as well as being present in **ELAB** in Munich.



Thank you

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

Contact the secretariat at secretariat@activehouse.info