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NETWORK AND KNOWLEDGE SHARING

Active House

Edifici che producono più di quanto consumano

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Active House Alliance,

Active House

L'origine del progetto



Piano EU 2020

- 20% Riduzione CO₂
- 20% Energia rinnovabile
- 20% Efficienza energetica

Direttive sulle prestazioni energetiche degli edifici (2010)

- Edifici a energia quasi zero (NZEB)
- Piani nazionali di attuazione



Applicazioni a livello nazionale (2011=>)

- Interpretazione della normativa NZEB
- Metodologia di sviluppo
- Aggiornamento legislativo e dei requisiti edilizi

Active House

La situazione attuale



40% dell'energia mondiale

- viene utilizzata per il riscaldamento e il raffrescamento degli edifici
- il 90% del patrimonio edilizio attuale sarà ancora in uso nel 2050

Trascuriamo il 90% del nostro tempo

- all'interno di edifici,
- almeno il 30% degli edifici non offre un clima interno sano

Le sfide climatiche si giocano a livello globale

- le risorse sono limitate
- i rifiuti aumentano



E' ora di agire!

Le tecnologie già esistenti possono fare la differenza!

Active House Alliance

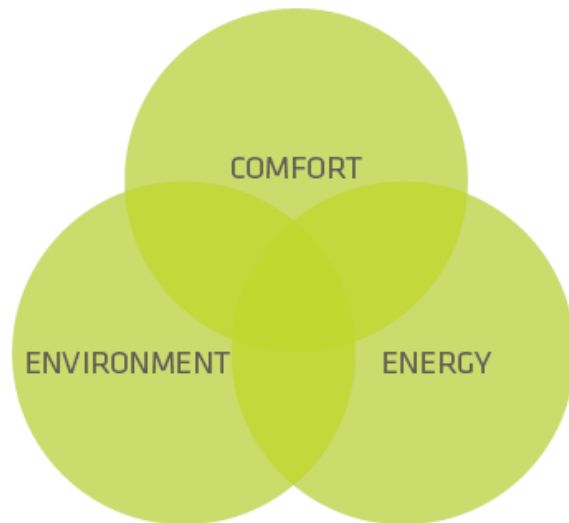
Partner e target groups



Active House: la visione

Edifici che producono più di quanto consumano

L'idea su cui si basa il concetto di Active House è quella di realizzare edifici che permettono una vita sana e confortevole a chi li abita, senza impattare in modo negativo sul clima.



Comfort

– *Crea condizioni abitative migliori*

Una Active House offre ai suoi abitanti un clima interno più sano e confortevole, apportando luce naturale e ventilazione. I materiali utilizzati non impattano negativamente sul comfort e sul clima interno.

Energia

– *Permette agli edifici di ottenere un bilancio energetico positivo*

Una Active House è un edificio ad alta efficienza energetica. Tutta l'energia necessaria al suo funzionamento deriva da fonti di energia rinnovabili integrate nell'edificio stesso o da vicini impianti collettivi di energia.

Ambiente

– *Ha un impatto positivo sull'ambiente*

Una Active House interagisce in modo positivo con l'ambiente circostante, inserendosi in maniera ottimale all'interno del contesto locale, grazie a un uso attento delle risorse e a un basso impatto ambientale durante il suo intero ciclo di vita.

Active House: approfondimenti

Edifici che producono più di quanto consumano

Criteri quantitativi

Classificazione: 1 (migliore) – 4 (accettabile)

Comfort

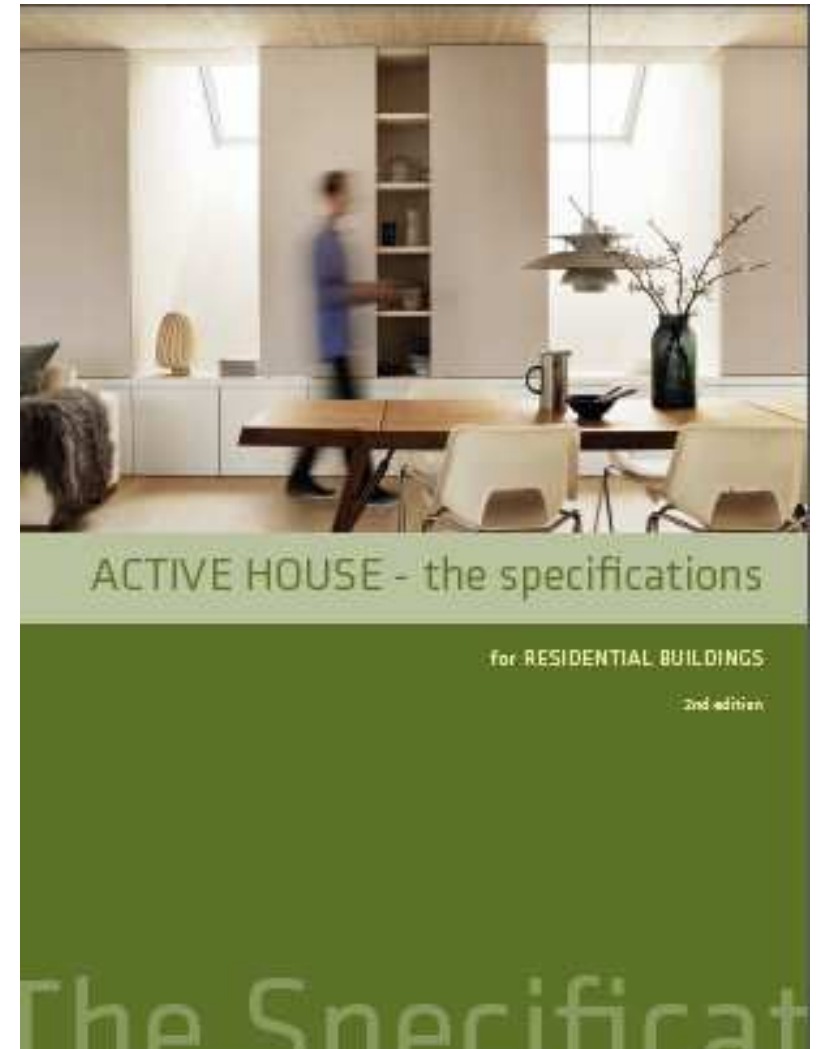
- Luce Naturale
- Temperatura degli ambienti
- Qualità dell'aria all'interno degli ambienti

Energia

- Consumo energetico
- Fornitura energetica
- Prestazione energetica

Ambiente

- Carico ambientale
- Consumo di acqua
- Edilizia sostenibile



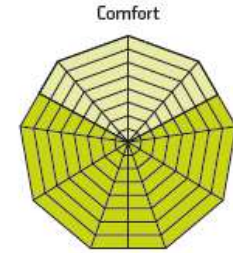
Active House: approfondimenti

Prestazioni nel diagramma radar



Active House: approfondimenti

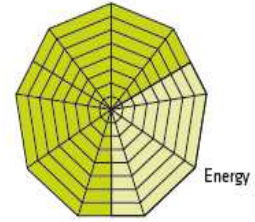
Comfort



Trascurriamo il 90% del nostro tempo in ambienti chiusi; di conseguenza la qualità del clima interno ha un impatto significativo sulla nostra salute e sul nostro comfort.

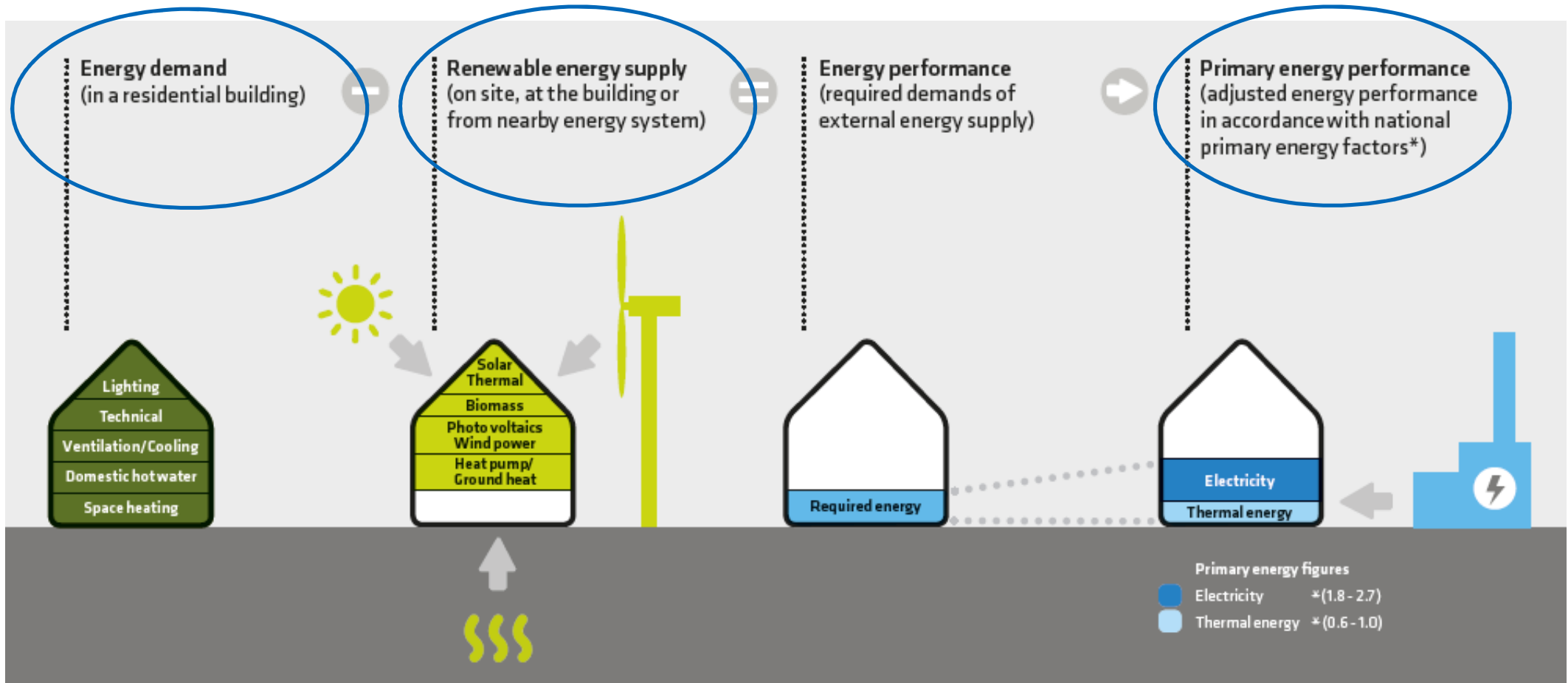
Un clima interno sano è una caratteristica fondamentale di una Active House. Il design stesso dell'edificio deve permettere di ottenere buone condizioni di illuminazione naturale, un buon comfort termico e una buona qualità dell'aria. Per ottenere questi risultati è importante rispettare determinati dettagli costruttivi.





Active House: approfondimenti

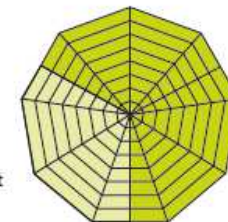
Energia



Active House: approfondimenti

Ambiente

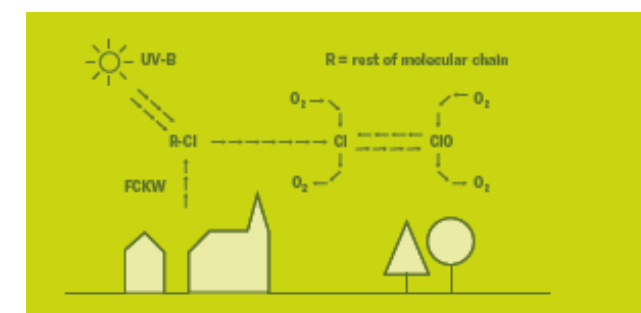
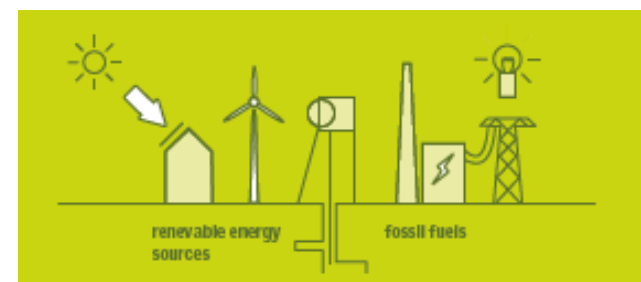
Environment



Le sfide che affrontiamo in ambito ambientale si giocano a livello locale, regionale e globale.

Nella progettazione di una Active House è importante che tali sfide vengano prese in considerazione. Soprattutto con l'obiettivo di ottenere una nuova generazione di edifici con un impatto positivo sull'ambiente.

Già in fase di progettazione dovrebbero essere fatte delle considerazioni in merito a come le Active House utilizzano materiali edilizi e risorse.



Active House: approfondimenti

Manuale sui dettagli tecnici

La seconda edizione del manuale può essere scaricato dalla homepage del sito Active House:

www.activehouse.info

Sono disponibili alcune copie.

Iscriviti alla newsletter:

www.activehouse.info



ACTIVE HOUSE - the specifications

for RESIDENTIAL BUILDINGS

2nd edition

The Specifications

Active House Alliance

Progetti in evidenza sulla homepage del sito



COMPLETION: 13 DECEMBER 2010
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
LITTRUP, DENMARK
Home for Life is inspired by a traditional Danish 19th century 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
KETTICING, 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
STERKSSEL, NB, NETHERLANDS
HoTT is dutch's first building completely designed Bimbouw en Active House. The layout is based residential program.



COMPLETION: OCTOBER 2009
SOLAR-ACTIVEHOUSE
KRAIG, AUSTRIA
Energy used for heating/hot water - whether its 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 of Montfoort are the first houses in the Netherlands 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
HÅRSHOLM, DENMARK
Children in Hårsholm can now play in the most climate-friendly nursery in Denmark



COMPLETION: JUNE 2012
ECO-ENERGY RETROFIT
SALFORD, UNITED KINGDOM (GREAT BRITAIN)
Retrofitting an 1890 solid wall terraced house within the Trias Energetics concept and Active House principles against a 1990 baseline



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



COMPLETION: OCTOBER 2010
SUNLIGHT HOUSE
RESEDAUM, VIENNA, 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
TÅSTRUP, COPENHAGEN, DENMARK
EnergyFlexHouse is two one's family houses, each of 120 m², a test building, and the other building is a one family in



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



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 p



COMPLETION: 15.10.2013
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
DEUGOŁSKA, POLAND
Lumina House is an energy efficient, ecological and comfortable, intelligent, optimal and affordable new



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



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



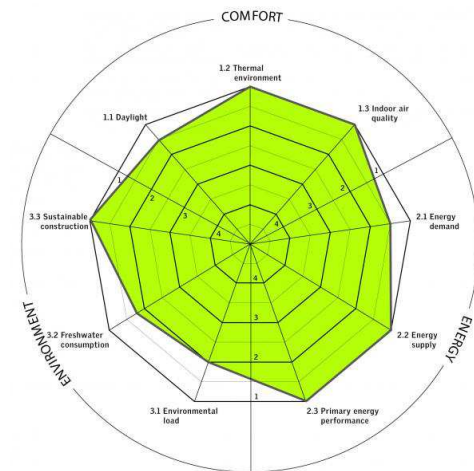
COMPLETION: APRIL 2012
NATURFREUNDEHAUS KNOFELE
SCHNERSBURG/KNOFELSBEN 4-2852 HIRSCHWANG, AUSTRIA
The old hut burned down in April. New building should be more user-friendly than the old one and more user-friendly for t



COMPLETION: 2011
VELUXLAB
MILAN, 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 res

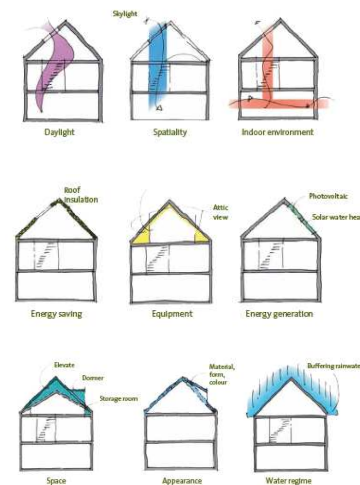
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Great Gulf Active House



Active House

Ristrutturazione Montfoort



Project description

Building name:	De Poorters van Montfoort
Building type:	10 terraced single-family homes
Location:	Montfoort, the Netherlands
Active House evaluation basis:	Renovation
No. of storeys and areas	3 floors
Heated floor area:	Gross m ² 131 m ² Net m ² 122 m ²
Primary constructions:	Internal and external walls of bricks. Bearing interior walls of concrete. Concrete slabs.
Primary heating supply:	Electricity
Heating system:	Water-water heat pump supplemented by thermal solar collectors
Renewable energy:	Thermal solar collectors and heat pump for hot water supply and room heating. PV for electricity generation.



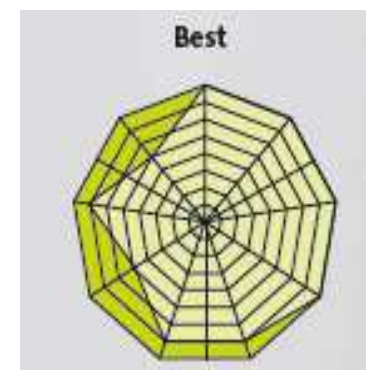
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Ristrutturazione Montfoort



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

- Calculation performance after renovation
- Calculation performance before renovation



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ISCRIVITI ALLA NEWSLETTER

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 Kucheravy, 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 low energy buildings. This year the Nordic 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...

HIGHLIGHTS



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

HØRSHOLM, DENMARK



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ACTIVE HOUSE NEWSLETTER

15:2013
OCTOBER 2013



UPCOMING EVENTS

Join us on October 30: Symposium 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 talks are 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 end with a plenary debate on sustainable buildings with focus on human well-being and comfort. Complete program. Participation fee: € 39,00. To register.

October 24: Webinar Multi-Comfort House in Belarus on the architect, Alexander Kucheravy, about his process behind the design of the house. The Multi-Comfort House in Belarus is an international project implemented by SAINT-GOBAIN, VELUX Belarus, and Karkasnyy Dom (Modern Frame House LLC) and designed by Belarusian architect Alexander Kucheravy. The house was opened for visitors on 23 May 2013. Find more information about the The Multi-Comfort House in Belarus here. Date and time: 24 October from 15.00 – 16.00 CET. Send us an e-mail at secretariat@activehouse.info if you wish to follow the webinar.



Nordic Passiv House conference

The Active House Alliance participates at the sixth Passivhus Norden conference where Nordic and European experts will meet, present and discuss 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 Østergaard Pedersen on the Active House vision for buildings.

NEWS

Active House open in Canada

The Great Gulf Active House in Canada opens on October 16. Niels Bohr Abramsen, the Danish ambassador to Canada will be the guest of honor at this official opening. Follow the building through LIVE updates. If you wish to attend RSVP to activehouse@greatgulf.com.



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 initiated by citizens, businesses and organisations. More than 400 projects were presented. The Active House Alliance made it to the final round 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 will participate in the next workshop to be organized in October on the 21-23 in Austria.



Sustainable Buildings: an EU Commission initiative

The European Commission wants to gather views 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, input and additional information to the European Commission.

Busy summer

During the summer, the Active House Alliance gave presentations and organized side events at several European conferences on sustainable buildings. Among others: CLIMA2013 and SB13 both organized in Prague, The Ventilative Cooling conference in Athens, as well as being present at PLEA in Munich.



Grazie per l'attenzione!

Vuoi far parte dell'Alleanza e seguirne gli sviluppi?
www.activehouse.info

Contatta la segreteria:
secretariat@activehouse.info