

25TH

INTERNATIONAL PASSIVE HOUSE CONFERENCE 2021

with Passive House Exhibition

*Passive House -
the key to
sustainable
buildings!*

PROGRAMME

Kindertagesstätte Wuppertal | Xella Ytong © Holger Krull

PART 1 Live in Wuppertal & ONLINE 10 + 11 September

Building tours
12 September

PART 2 ONLINE 14 + 15 September



Ministry of Economic Affairs,
Innovation, Digitalization and Energy of the
State of North Rhine-Westphalia



EUROPEAN UNION
Investing in our Future
European Regional
Development Fund

INDEX

PART 1

FRIDAY | SEPTEMBER 10, 2021

- | | |
|---------------------|--|
| 10:00 am - 12:15 pm | Opening plenary |
| 12:15 pm - 1:15 pm | Guided tours over the on-site exhibition |
| 1:30 pm - 3:45 pm | Session 1 and 2 |
| 4:15 pm - 6:30 pm | Session 3 and 4 |

From 18:45 Networking Party and Passive House Award 2021 Ceremony

SATURDAY | SEPTEMBER 11, 2021

- | | |
|---------------------|--|
| 9:00 am - 10:00 am | Plenary |
| 10:00 am - 12:15 pm | Session 5 and 6 |
| 12:15 pm - 2:15 pm | Component impulse lectures
Poster pitches |
| 2:15 pm - 4:30 pm | Session 7 and 8 |
| 5:00 pm - 6:30 pm | Plenary |

SUNDAY | SEPTEMBER 12, 2021

Building tours on-site and ONLINE

TUESDAY | SEPTEMBER 14, 2021

- | | |
|---------------------|--|
| 9:00 am - 10:00 am | Plenary |
| 10:00 am - 12:15 pm | Session 9 and 10 |
| 12:45 pm - 1:45 pm | Component impulse lectures
Poster pitches |
| 2:45 pm - 3:45 pm | Guided tours over the ONLINE exhibition |
| 4:00 pm - 6:15 pm | Session 11 and 12 |

WEDNESDAY | SEPTEMBER 15, 2021

- | | |
|---------------------|--|
| 10:00 am - 12:15 pm | Session 13 and 14 |
| 12:45 pm - 1:45 pm | Component impulse lectures
Poster pitches |
| 2:45 pm - 3:45 pm | Guided tours over the ONLINE exhibition |
| 4:00 pm - 6:15 pm | Session 15 and 16 |
| 6:30 pm - 8:00 pm | Closing plenary |

PART 2

10:00 am - 12:15 pm Welcome and plenary presentations



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Prof. Dr. Andreas Pinkwart

Minister for Economic Affairs, Innovation, Digitalization and Energy of the State of North Rhine-Westphalia



© Wolf Sondermann

Prof. Dr. Uwe Schneidewind

Lord Mayor of the City of Wuppertal



© Ingo Lammert /
Architektenkammer NRW

Dipl.-Ing. Architect BDB Ernst Uhing

President of the Chamber of Architects of North Rhine-Westphalia



© EnergieAgentur.NRW,
Frank Wiedemeier

Dirk Mobers

Head of Heating & Buildings at EnergyAgency. NRW



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Prof. Dr. Diana Ürge-Vorsatz

Vice Chair of Working Group III of the Intergovernmental Panel on Climate Change (IPCC) and Professor at the Central European University (CEU)



**Dr. Jürgen
Schnieders**



**Dr. Wolfgang
Feist**



**Jessica
Grove-Smith**



**Dr. Benjamin
Krick**

The path to a climate-compatible building stock

FRIDAY | SEPTEMBER 10, 2021

Session 1 | Highly efficient districts

1:35 pm **Hartmut Murschall**

Passive Houses in 100 climate protection settlements in the sustainable energy state of North Rhine-Westphalia

1:50 pm **Christiane Behrens**

Richard-van-de-Loo-Straße climate protection settlement in Kleve

2:05 pm **Helmut Schöberl**

Preservation order and Passive House: retrofitting the Art Nouveau Otto-Wagner-Areal district in Vienna

2:40 pm **Reiner Wirtz**

Accommodation building of the Max-Ernst-Schule boarding school in Euskirchen for LVR Cologne

2:55 pm **Jörg Linnig**

Energy-resilient climate protection settlement

3:10 pm **R. Vallentin, S. Früh, G. Schuler, M. Rezwan**

Partner projects as "PER cooperation model" for Passive Houses

Session 3 | Passive Public Housing

4:20 pm **Georg W. Reinberg**

"BikesRails": a Passive House as part of social, technical and urban innovation

4:35 pm **Norbert Stärz**

WohnSinn Bessungen – just your average Passive House?

4:50 pm **Tanja Schulz**

Affordable and energy-efficient multi-storey social housing

5:25 pm **Søren Peper**

Increased satisfaction, decreased consumption and lower summer temperatures: BuildTog Passive House Bremen

5:40 pm **Marc Großklos**

Experiences of operating two Passive Houses in social housing

5:55 pm **Christian Schlüter**

Model projects for sustainable and affordable living in Wuppertal and Bochum – "Variowohnung" housing

German

German

FRIDAY | SEPTEMBER 10, 2021

Session 2 | Sustainability scenarios

1:35 pm **Rainer Vallentin**

Global carbon-budget for buildings

1:50 pm **Jörg vom Stein**

Co-working space as a Passive House

2:05 pm **Susanne Körner**

Passive House Standard in straw-bale construction for increased sustainability & climate protection

2:40 pm **Bernd Steinmüller**

Secure supply during dark doldrums – Passive Houses as additional power plants (grids)!

2:55 pm **Simone Kreutzer Wesslund**

From Passive House "Classic" to Passive House "Eco" to Passive House "Zero"

3:10 pm **Oliver Ottinger**

Is becoming climate-neutral realistic?

German

Session 4 | Summer comfort and cooling concepts

4:20 pm **Soraya López García**

Guidance for robust summer comfort design

4:35 pm **Oliver Style**

Keep cool and carry on: Passivhaus cooling experiences in the warm climates

4:50 pm **Jesus Menendez**

Passivhaus Plus high school in warm climate

5:25 pm **Oliver Kah**

Passive House non-residential buildings against the background of increasing heat waves

5:40 pm **Adrian Muskatewitz**

Solar-electric cooling – potential and limitations

5:55 pm **Laszlo Lepp, Daniel Neyer**

Passive Houses and solar cooling in hot and humid climates (sol.e.h.² part 1/2)

English

German

Award ceremony

Passive House Award 2021

International architecture
competition
for energy efficient buildings

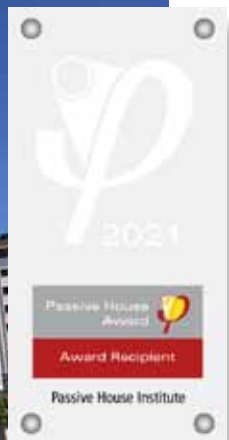
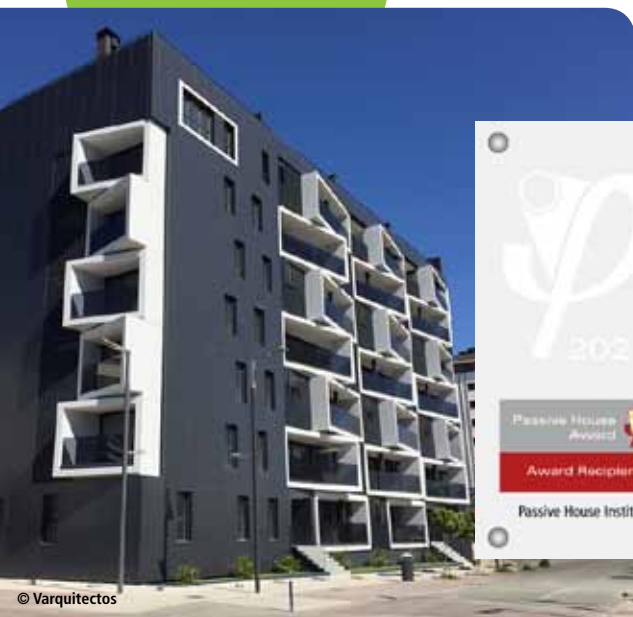
The award ceremony of the Passive House Award 2021 will start on September 10 at 6:45 pm.

The winners of the individual categories and special awards will be announced on site and will also be livestreamed from the Historische Stadthalle Wuppertal.

The Passive House Award 2021 shows in an impressive way that outstanding architecture can be extremely energy efficient at the same time.

Following:

Passive House
Networking Party



Supporters and sponsors of the Passive House Award 2021

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International
PASSIVE HOUSE
Association  **IPHA**

2021

Passive House
Award



Component impulse presentations and poster pitches

New!

In 3-minute impulse presentations, products related to the Passive House will be introduced and the poster contributions presented. You can look forward to product presentations and content that will be briefly and succinctly brought to the point by the manufacturers and speakers.

The new moderated formats will also give you the opportunity to ask questions and set the course for further exchange with the Passive House experts. The component impulse lectures and poster pitches will always take place live at the same time and will be available as a recording after the conference.

In addition, the component impulse lectures are also available to the public via the free ONLINE Passive House trade exhibition. The poster pitches, on the other hand, are exclusively accessible to conference participants via the conference platform.

Schedule of the component impulse presentations and poster pitches

September 11, 2021

Both from 12:45 pm to 1:45 pm

Live in the Historische Stadthalle Wuppertal, transmitted via live stream on our conference platform

September 14 and 15, 2021

Both from 12:45 pm to 1:45 pm

Online via our conference platform

SATURDAY | SEPTEMBER 11, 2021

Session 5 | Energy consulting for buildings in Ger-

10:05 am **Gerald Lange**

EnerPHit retrofit for Plus Energy House

10:20 am **Bernd Steinmüller**

Model project: sustainably transforming existing old single-family homes into premium Passive multi-family

10:35 am **Dieter Herz**

Retrofitting a gymnasium with TES façade elements

11:10 am **Susanne Schwickert**

User satisfaction versus air quality – ventilation in classrooms

11:25 am **Susanne Theumer**

Comparing BEG and the EnerPHit Standard based on a single-family home

11:40 am **Axel Bretzke**

Does quality assurance of energy-efficient design help reduce construction costs?

Session 7 | Prefabricated retrofitting outPHit

2:20 pm **Gerhard Kopeinig**

Prefabricated EnerPHit retrofit with wood modules

2:35 pm **Michael Langkau, Roland Matzig**

SAINT-GOBAIN pre.Formance – prefabricated system for efficiently retrofitting residential buildings

2:50 pm **Clarence Rose**

Living cost-neutral EnerPHit retrofits on the rise

3:25 pm **Ron Beattie**

Making existing homes fit for the future with TCosy Passive Retrofit

3:40 pm **Rainer Pfluger**

Different ways and possibilities for application methods of serial renovation - outPHit

3:55 pm **E. Vekemans, T. Giraudeau, S. Cochet, P. Liret**

Deep Retrofits / outPHit : Lessons learned out of realised outPHit (EnerPHit/Energiesprong)

German

German

English

SATURDAY | SEPTEMBER 11, 2021

Session 6 | Ecological construction material

German

10:05 am **Benjamin Krick**

Life cycle balances of Passive House building components

10:20 am **Martin Aichholzer**

Taking the Passive House concept even further – consumption in operation and impact on buildings

10:35 am **Jörg Linnig**

Ärztehaus Waldbröl medical centre celebrates 20 years of proven sustainability – a progress report

11:10 am **Katharina Prinzing**

Timbered Passive House – a holistic evaluation

11:25 am **Gerrit Horn**

Using the natural resource wood in constructing timbered Passive Houses

11:40 am **Anja Rosen**

Recyclable Passive Houses – construction and evaluation with the Urban Mining Index

Session 8 | It keeps getting better - using Passive House components

2:20 pm **Adrian Muskatewitz**

Limitations to thermal bridge prevention in construction: column connections

2:35 pm **Jürgen Schnieders**

Efficient electric hot water production in newly built or retrofitted multi-family houses

2:50 pm **Franz Freundorfer**

The first sliding door in the pH+ energy efficiency class – the best there is

3:25 pm **Arnold Drewer**

Insulation materials and their properties

3:40 pm **Bjørn Kierulf**

Building the future with carbon storing prefab walls

3:55 pm **Markus Wolf, Philipp Weßling**

Tapping into the market with straw-bale construction – the success story of Zimmerei Grünspecht eG

German

Plenary Sessions

Also for our anniversary conference in 2021 we have filled our plenary sessions with top-class keynotes from science and politics. The International Passive House Conference is THE meeting place for experts in energy-efficient construction and renovation from Germany and around the world.



© Historical City Hall Wuppertal, Photo: Lars Langemeier

This year, we are particularly pleased to welcome again **Prof. Dr. Ernst Ulrich von Weizsäcker** with a presentation entitled „Climate has become a big issue. Does the building industry already know that?“ at the International Passive House Conference. Born in 1939, the environmental scientist and politician is one of the pioneers of sustainable management and founding president of the Wuppertal Institute for Climate, Environment and Energy. Since 1992, von Weizsäcker has been a member of the Club of Rome, an interdisciplinary association of scientists for the benefit of mankind. In order to secure a sustainable future for humanity, this organization examines the megatrends of human history. From 2012 to 2017, von Weizsäcker was vice-president, and since 2018 he has been honorary president of the organization.



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Building tours

This year, we are once again offering you the opportunity to gain insights into current Passive House projects. Join our on-site excursions in Wuppertal and the surrounding area on Sunday, September 12, 2021 and discover Passive House projects from around the world as part of our ONLINE excursions.

Look forward to exciting and innovative projects. Experience sustainable buildings with comfort - for living and working and as meeting places for young and old. Find out about topics such as ventilation systems, insulation and how to avoid thermal bridges and learn from personal experiences and challenges and the associated individual solutions.

For more information on the planned excursions, please visit our conference website at

www.passivehouseconference.org

Workshops

We are planning in-depth workshops for you on various topics related to Passive Houses. Take the opportunity and expand your knowledge. Among other things, the use of various planning tools will be taught interactively and we will devote ourselves to one of the most current planning tasks: summer comfort. The extent and topics of the workshops in Wuppertal have not yet been determined.

You can find more detailed information at

www.passivehouseconference.org



Passive House certification Quality assured!



- * comfortable
- * sustainable
- * affordable



Passive House and EnerPHit Certification

Careful quality check for residential and non-residential buildings

The certifier checks the execution planning carefully and comprehensively. A certificate is only issued if the precisely defined criteria have been met without exception.

Advantages

- **Certainty** that the agreed upon energy standard will actually be achieved
- **Error prevention** through external checking of the design prior to the start of construction
- **Increased property value** through independent quality assessment
- Submission of the Certified Passive House verification for **grant programme**
- Recognition as a **Certified Passive House Designer** is possible by submitting a certified building

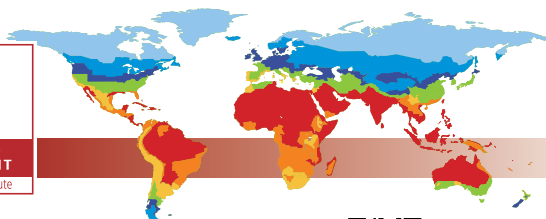


Further information: passivehouse.com >
certification > buildings > building certification guide >
Passive House certifier for buildings

Certified Passive House Components: quality you can count on

- On the cutting edge of technological development
- For both retrofits and new builds
- Projects ranging from small homes to large non-residential complexes
- Passive House Institute approved for thermal quality
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All components in one easy online search:
www.passivehouse.com

TUESDAY | SEPTEMBER 14, 2021

Session 9 | Ventilation and heating

10:05 am **Berthold Kaufmann**

Ventilation systems combined with heat pump for heating, cooling and domestic hot water

10:20 am **Lois Arena**

Landmines & Red Flags: How to avoid these when designing VRF space conditioning systems

10:35 am **Hannah Jones**

The application of ambient loop district heating in multi-residential Passive Houses

11:10 am **Esther van Eeden**

Isolation Environments: How Passive House = Passive Health

11:25 am **Alan Clarke**

Experience of air to water heat pumps for single family Passivhaus dwellings

11:40 am **William Monteleone**

Development of a modular heat pump with compact and silent façade-integrated outdoor unit

Session 11 | Future prospects - communication and dissemination

4:05 pm **Ingrid Westman**

Don't ask the client - just do it!

4:20 pm **Pablo Carranza Navarro**

Turning carbon into diamond in a sustainable and replicable way.

4:35 pm **Vladimir Pezel**

From a client to a CPHD - Passive House certification journey

5:10 pm **Garth Grunerud, Sonia Zouari**

Parks Canada newest discovery centre, lab & office leading PH+ greening government vision

5:25 pm **Stefanos Pallantzias**

„Show me your Passive House!": A communication strategy for better buildings

5:40 pm **Ann-Marie Fallon**

A Scottish EnerPHit retrofit plan: Upgrading the educational estate in an UNESCO World Heritage Site

English

English

TUESDAY | SEPTEMBER 14, 2021

Session 10 | International Passive House projects

10:05 am **Allison Holden-Pope**

The Fold Passive Duplex Plus: Lock-off suites provide density and flexibility

10:20 am **Ifrah Ariff**

Evaluating energy use in two Passive House Plus dwellings in the UK

10:35 am **Cillian Collins**

SoLo prototype and lessons learned for larger scale mass timber Passive House projects

11:10 am **Camille Sifferlen**

Passive House concepts for India

11:25 am **Bartosz Krolczyk**

The Passive House with a winter garden – the first PH Plus certified house in Poland

11:40 am **Marcus Strang**

Passive House Standard for CLT NZEB in tropical climates

English

Session 12 | Monitoring and quality assurance

4:05 pm **Stefanie Rolfsmeier**

Luftdurchlässigkeitsmessung eines 125 m hohen Hochhauses (Projekterfahrung)

4:20 pm **Søren Peper**

Massenhaft realisierte Verbesserungen (SINFONIA Innsbruck)

4:35 pm **Walter Orlik**

Elf Jahre Bahnstadt Heidelberg: Qualitätssicherung und Monitoring

5:10 pm **Rolf Demmler**

Real-life performance evaluation of eco-city Passive House apartments in Tianjin, China

5:25 pm **Shane Colclough**

Deep energy retrofits: Who benefits, who pays & how to inform effective policy development

5:40 pm **Evangelia Mitsiakou**

Less than 2%: „Reimagine“ the building to verify how much extra Passivhaus costs.

German

English

WEDNESDAY | SEPTEMBER 15, 2021

Session 13 | Energy efficient non-residential build-

English

10:05 am **Elise Woestyn, Elena Reyes**

Charting new territory in Passive House:
Vancouver Fire Hall 17

10:20 am **Dragos Ionut Arnautu, Marius Soflete**

Lessons learned from the first certified office building in
Romania (PHILEB)

10:35 am **Allan Smith**

A comparison between two identical nurseries in
Scotland - one Passivhaus one traditional

11:10 am **Alan Clarke**

Low energy free-running paper stores:
Moisture buffering model and monitored data

11:25 am **Adelina Uriarte Gonzalo-Bilbao, Pedro Mariñe-**

Students' dormitory in Vitoria-Gasteiz /Basque C-Spain:
A standard project becomes a PH

11:40 am **Marco Filippi**

EnerPHit school in Collecchio, Parma

Session 15 | Recommendations on how to implement PH

English

4:05 pm **Marine Sanchez**

Successful PH feasibility study: How to guide a team
through a front-loaded design process

4:20 pm **Greg Hoffart**

Passive or nothing; Passive Simple!!

4:35 pm **Szabolcs Varga**

A comparative life cycle CO₂ analysis of a step-by-step
EnerPHit versus a shallow retrofit

5:10 pm **Nick Grant**

Heating load as a design target revisited

5:25 pm **Pablo Carranza Navarro**

STOP (Strategies To Obtain Passivhaus)

5:40 pm **Fabian Ochs**

The role of energy storage in buildings, micro and
macro economic considerations

WEDNESDAY | SEPTEMBER 15, 2021

Session 14 | Policy, networks and education

10:05 am **Ann-Marie Fallon**

Scotland's education estate: Policy ambitions at scale

10:20 am **Yetsuh Frank**

Passive House Retrofits: Climate action in the Northeast US

10:35 am **Giorgia Tzar**

The International Passive House Association: Growing the Passive House movement worldwide

11:10 am **Tomas O'Leary**

Using analogies for fun and impactful Passive House education

11:25 am **Maria del Carmen Rivero**

Passive House site supervisors: Skills and knowledge for successful PH building sites

11:40 am **Bega Clavero**

Start walking and the path will become clear: Lessons learned during 10 years of Passivhaus

English

Session 16 | PHPP and other tools

4:05 pm **Esther Gollwitzer**

Multi-pane windows in the PHPP

4:20 pm **Tobias Unger**

Optimisation approaches for affordable and energy-efficient construction

4:35 pm **Susanne Theumer**

Energy consulting with PHPP

German

5:10 pm **Rick Sealey**

Affordable housing: Mitigating costs by enhanced PH coordination

5:25 pm **Wolfgang Hasper**

Post-occupancy monitoring: What to observe, how to select equipment

5:40 pm **Gwilym Still**

Passivhaus student accommodation: Lessons learnt in the UK

English

International

PASSIVE HOUSE

Association



iPHA – The International Passive House Association

The global Passive House network for energy efficiency in construction



iPHA works to promote the Passive House Standard and foster a greater public understanding of its significance.

**comfortable
affordable
sustainable**



© Peter Aaron / OTTO

Encouraging the global exchange of Passive House knowledge, iPHA communicates with the media, the general public and the entire range of construction professionals.

Reap the benefits of iPHA membership:

- Passipedia, the wiki-based Passive House resource
- The iPHA forum, a dynamic platform for exchange
- Presentation in the iPHA member database
- Newsletters detailing Passive House developments
- Discounts on Passive House Institute services and events
- An array of expert material



Join iPHA today!

www.passivehouse-international.org

Schedule

The 25th International Passive House Conference 2021 is planned as a hybrid event and will take place ONLINE and on-site at the Historische Stadthalle Wuppertal.

It is composed of two parts: On September 10 and 11, 2021, the first part of the conference is planned, broadcast as a live stream from the Historische Stadthalle Wuppertal, with audience.

This will be followed, probably on Sunday, September 12, by on-site excursions in Wuppertal and the surrounding area, as well as ONLINE excursions to built Passive House projects.

The second part of the conference, on September 14 and 15, 2021 will be held as an ONLINE-only event.

Conference fees

We would like to make it possible for you to participate in the conference in any case. For this purpose, we have provided 2 ticket options:

You can attend part 1 of the conference in the Historische Stadthalle Wuppertal and experience part 2 ONLINE **or** enjoy the complete conference in a live stream ONLINE at home.

This results in the following booking options, which you can choose in our online ticket store:

Participation online and in Wuppertal

Conference ticket - Early bird	600 €
Conference ticket - Regular price	750 €
Conference ticket - Speaker	250 €
Conference ticket - Poster speaker	375 €

Participation online only

Conference ticket - Early bird	300 €
Conference ticket - Regular price	450 €
Conference ticket - Speaker	150 €
Conference ticket - Poster speaker	225 €

As member of iPHA, IG Passivhaus or Passivhaus Austria you will receive a discount of 25% on the above prices.

Students receive a discount of 75% on the above prices.

(Full-time students only, copy of student ID must be presented)

Building tours

to built Passive Houses on site in Wuppertal and surroundings (Online building tours included in the conference ticket)	100 €
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All prices include VAT.

For further information on ticket purchase, cancellations, services, cancellation, changes and data processing, please refer to the General Terms and Conditions at www.passivehouseconference.org

Passive House Exhibition

Both in new buildings and in the modernization of old buildings, passive house components with their outstanding quality ensure a high level of comfort and the lowest energy costs.

Whether insulation materials, windows or ventilation units with heat recovery - the leading suppliers of passive house components are represented at the trade exhibition. As a visitor, you will also receive first-class advice, information material, demonstration objects and always an open ear for your questions.

On-site

Date: Friday, September 10 and
Saturday, September 11 2021

Location: Historical City Hall Wuppertal

Only accessible to conference participants

ONLINE

Wednesday, September 1 - Thursday,
September 16, 2021

Open to public and free of charge

The trade exhibition is aimed at:

Architects | Planners | Property developers

Engineering offices | Energy consultants

Energy suppliers | Tradeworkers

Science & Research | Trade | Investors

Industry | Municipalities | Building families

Exhibition topics

- Thermal insulation and connection solutions
- Windows and doors
- Ventilation systems with heat recovery
- Heat pump compact units, air-conditioning split units
- Geothermal heat exchangers
- Furnaces and heating systems, solar/PV systems
- Measuring devices for the control of airtight construction and ventilation technology, infrared cameras
- Products for airtightness
- Prefabricated houses and building components
- Solutions for construction companies, trade associations, architecture and engineering offices, energy consultants



Passive House Institute

Your competent partner for consulting on innovative projects and components.



photo © Graeme McDonald

We also provide support and advice in the development of Passive House building components and the creation of energy concepts for all manner of buildings. Please feel free to contact us at:

Benjamin.Krick: components@passiv.de

Zeno Bastian: building.certification@passiv.de



*Passive House
Institute*

- Research and consultancy
- Dynamic building simulations
- Passive House building certification
- Development and certification of Passive House building components
- International Passive House Conference
- Passive House Designer/Tradesperson course materials
- PHPP – the Passive House design tool
- International Passive House Association

www.passivehouse.com

Passive House courses and E-learning



Gain knowledge for the design and construction of highly energy efficient buildings.

The Passive House Institute, together with numerous partner organizations worldwide, offers a variety of training courses and awards certificates and seals for successfully trained tradespersons and designers/consultants.

Information for professionals and educational institutions at:

www.passivehouse.com/training



Organising body:



Passive House Institute

Rheinstraße 44/46 | D-64283 Darmstadt, DE

Co-organising bodies:

EnergieAgentur.NRW



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Ministry of Economic Affairs,
Innovation, Digitalization and Energy of the
State of North Rhine-Westphalia



Information on training points and online registration at:
www.passivehouseconference.org

Schedule 25th International Passive House Conference 2021

01-16 September	ONLINE Passive House Exhibition
10.+11. September	PART 1 Conference programme and Passive House Exhibition
11. September	Passive House Networking Party
12. September	Passive House building tours
14.+15. September	PART 2 Conference programme

Conference languages: German and English

Selected German presentations will be translated into English.

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**Wuppertal
Institut**



Endenergie für
Energie aus Deutschland
Deutschland e.V.



Die Kreisverbände
für Energie
Bundesverband



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