Conference programme
# Programme

## Openings

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<th>Thursday 17.09</th>
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## Week 1

**Wednesday 23.09**

- SESSION 1: Nearly Zero Energy Buildings
- SESSION 2: Components and supply concepts
- SESSION 3: Passive House Districts
- EXTRA Tours on the Online Passive House Exhibition

**Thursday 24.09**

- SESSION 4: Passive House goes China
- SESSION 5: Future-proof and sustainable
- EXTRA Tours on the Online Passive House Exhibition
- SESSION 6: Passive House Tools

## Week 2

**Wednesday 30.09**

- Halftime plenary
- SESSION 7: Passive House Retrofits
- SESSION 8: Passive House Solutions

**Thursday 01.10**

- SESSION 9: Passive House Training and Education
- SESSION 10: Summer comfort and resilience
- SESSION 11: Tall Passive House Buildings
- EXTRA: Building tours - Video Edition!

## Week 3

**Wednesday 07.10**

- SESSION 12: Workshop: Cost-efficient social housing
- EXTRA: Building tours - Video Edition!
- SESSION 13: Non residential Passive House projects
- SESSION 14: Passive House Policy

**Thursday 08.10**

- SESSION 15: Passive House Retrofits in Germany
- SESSION 16: Passive House projects around the globe
- Final plenary

[International Passive House Conference 2020]

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Opening plenary

Sunday, 20 September 2020, 3:00 pm
Opening plenary

Jessica Grove-Smith
Management Passive House Institute

Opening of the 24th International Passive House Conference

Thorsten Herdan
Head of the Energy Policy Department - Heat and Efficiency Federal Ministry for Economic Affairs and Energy (BMWi)

Welcoming speech

Jens Deutschendorf
State Secretary, Hessisches Ministerium für Wirtschaft, Energie, Verkehr und Wohnen

Welcoming speech

Prof. Dr. Dirk Messner
President, Umweltbundesamt

Welcoming speech

Alexander Bonde
General Secretary, Deutsche Bundesstiftung Umwelt (DBU)

Welcoming speech
Prof. Stefan Rahmstorf
Climate scientist and professor at the Potsdam Institute for Climate Impact Research
"Climate Crisis: What we know and what we can do about it"

Wolfgang Feist
Founder of the Passive House Institute
"Passive House - More than a contribution to climate protection"

Giorgia Tzar
Passive House Institute
What is the international Passive House Association?
SESSION 1
Nearly Zero Energy Buildings

Wednesday, 23 September 2020, 9:00 am
Dimitris Pallantzas
Hellenic Passive House Institute
Economical evaluation between PH and nearly Zero Energy Buildings in Greece

Francesco Nesi
ZEPHIR - Passivhaus Italia
A landmark for the community on the Adriatic coast: the Passivhaus MEGABOX office

Dieter Herz | Chair

Raquel Marcos López
ra[]el ARQUITECTURA
Passivhaus Plus housing monitoring mediterranean climate
Horia Petran
NIRD URBANINCERC

An evolution of National nZEB standard using Passive House principles

Thomas Roßkopf
Energieinstitut Vorarlberg

Cost optimal nZEB residential new builds

Dieter Herz | Chair

Mark Stephens
Mark Stephens Architects and Certified PH Consultants

Mind the gap: nZEB and Passivhaus: An Irish perspective
SESSION 2
Components and supply concepts
(German Presentations with English subtitles)

Wednesday, 23 September 2020, 9:00 am
Silvia Öttl
University of Innsbruck

Innovative and energy efficient fire prevention solutions for ventilation systems

Oliver Kah
Passive House Institute

Kitchen exhaust systems in Passive House buildings

Matthias Wangelin
KEEA GmbH

Reduction of Passive House energy demand using mechanical drink water hygienization

SESSION 2
Berthold Kaufmann
Passive House Institute

Heat Pump Kombi Systems - an overview of recent developments not only in China

Benjamin Krick
Passive House Institute & University of Applied Sciences Darmstadt

PH suitable pre wall mounting systems and accompanied thermal bridges in various climates

Adrian Muskatewitz
Passive House Institute

Thermal bridge calculations of balconies with two-dimensional replacement elements

SESSION 2
SESSION 3
Passive House Districts
(German presentations with English subtitles)

Wednesday, 23 September 2020, 5:00 pm
Harald Konrad Malzer  
NEUE HEIMAT TIROL Gemeinnützige Wohnungs GmbH  
Smart City Wörgl: A vision turns reality

Wolfgang Hasper  
Passive House Institute  
Measured heating load for DHW and space heating in a large Passive House development

Rena Vallentin  
ArchitekturWerkstatt Vallentin GmbH  
Wooden Passive House construction in the city: An ecological living quarter in Munich's Prinz-Eugen Park

Peter Friemert | Chair
SESSION 3

Wolfgang Streicher
University of Innsbruck, Arbeitsbereich Energieeffizientes Bauen

Tirol 2050: Visions of a fossil free future

Jürgen Schnieders
Passive House Institute

Passive House and sector coupling in Germany

Peter Friemert | Chair

Georgios Dermentzis
University of Innsbruck

Tour on the ONLINE Passive House Exhibition - Session 1
SESSION 4
Passive House goes China

Thursday, 24 September 2020, 9:00 am
Peng Mengyue
Center of Science and Technology & Industrialization Development, MOHURD

Challenges and Solution of Complex Non-Residential Passive House and NZEB in China

Yi Zhu 朱蘖
SoftGrid (Shanghai) Co., Ltd.

A Future Blueprint - How Passive House construction in China becomes easier as we speak

Haifeng Guo
Beijing Institute of Residential BuildingDesign & Research co.,LTD

The performance-based design and operational analysis of X88 kindergarten

Sichen Sheng
Passive House Institute

Study on a Passive House nursing home with solar-driven system in warm and humid climates
Jiandong Li
China Academy of Building Research (CABR)

Analysis and discussion on the Germany PHI certification test of energy recovery ventilators for outdoor air handling

Li Pan
Shanghai Research Institute of Building Sciences Co., Ltd

Research and practice of passive ultra-low energy buildings in hot summer and cold winter

Ruixue Li
Beijing Residential Architecture Design and Research Institute Co., Ltd.

Practice and thoughts of Shoukai Tongzhou affordable high-rise residential project
Tour on the ONLINE Passive House Exhibition - Session 2
SESSION 5
Future-proof and sustainable
(German Presentations with English subtitles)

Thursday, 24 September 2020, 5:00 pm
20 September - 08 October 2020

Benjamin Krick
Passive House Institute & University of Applied Sciences Darmstadt

Active, passive, or both? Paving the way for an energy transition

Josef Scheiring
MPREIS Warenvertriebs GmbH

MPreis supermarkets: Experiences from 10 Passive House franchises

Thilo Cunz
WSP Deutschland AG

Passive House - naturally sustainable!

Johannes Kreißig | Chair

SESSION 5
I24 INTERNATIONAL PASSIVE HOUSE CONFERENCE 2020
20 September - 08 October 2020

Marc Großklos
Institut Wohnen und Umwelt GmbH

Future proof new builds for a climate-neutral building stock in 2050

Tommy Kreutzer Wesslund
Enerwex AB

Knivsta Centre for Sports and Culture

Johannes Kreißig | Chair

Martin Laatsch
Steinbeis-Innovationszentrum energie+

Strong builders - great buildings!

SESSION 5
Halftime plenary

Wednesday, 30 September 2020, 9:00 am
Halftime plenary

Jan Steiger
Management Passive House Institute

Opening of the halftime plenary

Andrew McAllister
California Energy Commission

Finding Community: Passive Building for Quality of Life, Globe and Grid

Ni Haiqiong
CEO, Orient Sundar Group

International Passive House Conference ignites China Building Energy Conservation Industrial Revolution
Horizon 2020 and beyond: Priorities and Funding for Energy in Buildings - EASME

Dr. Julia Verlinden MdB
Fraktion Bündnis 90/Die Grünen, Spokesperson for Energy Policy

Energy efficiency as the key to climate-neutral buildings: What needs to be done now

Gordon Sutherland
Head of Sector – Buildings & Heating/Cooling. European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME)

Halftime plenary

Jan Steiger and Laszlo Lepp
Passive House Institute

DEEP RETROFITS! No matter if conventional or pre-fabricated, in one shot or step-by-step
SESSION 6
Passive House Tools

Thursday, 24 September 2020, 5:00 pm
Tobias Hatt
Energieinstitut Vorarlberg

Experiences in the optimisation of a running system using simulation software

Philippe St-Jean
McGill University

Greenhouse gas emissions calculator for PHPP v9.6

Edwin May
BLDGtyp

New Tools, New Workflows for Combined Dynamic and PHPP Modeling at Scale
Laszlo Lepp  
Passive House Institute - Innsbruck  
Planning ventilation systems with designPH

Fabian Ochs  
Universität Innsbruck Institut für Konstruktion und Materialwissenschaften  
PHPP vs. dynamic simulation – prediction of PV-self-consumption with the PHPP

Andrew Peel | Chair

Harald Konrad Malzer  
NEUE HEIMAT TIROL Gemeinnützige Wohnungs GmbH  
Reliable evaluation procedure for efficiency and investment cost potential in architectural competitions
SESSION 7
Passive House Retrofits

Wednesday, 30 September 2020, 5:00 pm
Michael Ingui  
Baxt Ingui Architects  
Past, present, & future solutions for masonry retrofits

Claudia González García  
DUQUEYZAMORA ARQUITECTOS S.L.P  
Retrofitting Asturias architectural heritage

Bjorn Kierulf | Chair

Bega Clavero  
Progetic  
EnerPHit airtightness & moisture control: Robust simple solutions for low-leak retrofits
Ron van Erck  
Energiesprong Foundation, Deutsche Energie-Agentur  
The Energiesprong approach: Affordable, climate-conscious living for all!

Carl-Peter Goossen  
Bouwnext/DNA in de bouw  
Initial experiences with the condominium fee model as applied in Assen

Bjorn Kierulf | Chair

Stefan Oehler  
ecoworks GmbH  
"ecoworks" realises the first serial RetroPhit in Germany

SESSION 7
SESSION 7 Part 2
outPHit - deep renovation projects more reliable, faster and cheaper

Wednesday, 30 September 2020
Jan Steiger
Passive House Institute

outPHit: Project overview

Anne Vogt
VAND arquitectura

outPHit: Pilot projects

Christian Kuhlmann
LandesEnergieAgentur (LEA) für Hessen

Serial retrofit in the State of Hesse / Germany

outPHit - deep renovation projects more reliable, faster and cheaper
SESSION 8
Passive House Solutions

Wednesday, 30 September 2020, 5:00 pm
Piero Russo
Piero Russo - Ingegneria Architettura

Monitoring of a multi-family PH building in Mediterranean climate

Marine Sanchez
RDH Building Science

Defining project-specific PHPP inputs for institutional buildings with commercial kitchens

Mark Siddall | Chair

Pablo Carranza Navarro
BIONM estudio

Improving cost-effectiveness on the same multifamily typology and location over five years

SESSION 8
Marcel Studer
Passive House Canada, Econ Group Ltd

Training in remote communities: Self-built Passive House as an alternate to prefab

Oliver Style
Progetic

DHW + PV: all-electric hot water heating for Passive Houses, with surplus solar PV top-up

Aggeliki Stathopoulou
NetZero

Single family house in Chalandri, Greece

20 September - 08 October 2020
SESSION 9
Passive House Training and Education
(German presentations with English subtitles)

Thursday, 1 October 2020, 9:00 am
Franz Freundorfer
Passivhauskreis Rosenheim Traunstein e.V.
Building with tradespeople that just do everything right

Simone Kreutzer Wesslund
IG Passivhus
Like a spider in a web: Passive House quality assurance

Susanne Winkel
Passive House Institute
Avoiding the Performance Gap by deepening and disseminating Passive House knowledge

Lazlo Lepp | Chair
Rainer Pfluger
Universität Innsbruck, Arbeitsbereich
Energieeffizientes Bauen

University education as a chance for spreading the Passive House Standard

Philipp Krebs
Fachhochschule Erfurt

High energy efficiency education in technical colleges: A experience report by the University of Applied Sciences Erfurt

Stefan Pallantzas
Hellenic Passive House Institute

Revolution through education
SESSION 9 Part 2
Passive House Student Competitions

Thursday, 01 October 2020
Passive House Student Competitions

PH Trust: Passivhaus Student Competition 2020

Passive House Canada Student Design Competition 2019

1st Student Competition by the Hellenic Passive House Institute: Designing a Passivhaus Kindergarten

SESSION 9 Pt. 2
SESSION 10
Summer comfort and resilience

Thursday, 1 October 2020, 9:00 am
Kaz Bremner
Perkins and Will Architects
Passive House and resilience in the face of a warming climate

Cameron Munro
Passive Analytics
Resilience of Passive Houses to bushfire smoke infiltration

Jessica Grove-Smith
Passive House Institute
The impact of a warming climate on buildings

Stefan Pallantzas | Chair
**SESSION 10**

**Dragos-Ionut Arnautu**  
Passive House Institute  
*First certified Passive House building in a very hot and dry climate*

**Søren Dietz**  
Bjerg arkitektur, Green Lab  
*Solar gains and thermal effect on living comfort and quality*

**Stefan Pallantzas | Chair**

**Adrian Muskatewitz**  
Passive House Institute  
*Heating and cooling with split units (compression cooling) in accordance with thermal comfort goals*
SESSION 11
Tall Passive House Buildings

Thursday, 1 October 2020, 5:00 pm
Melissa Furukawa  
Peel Passive House Consulting

Beacon in the sky: A residential tower undergoes a stepwise EnerPHit retrofit

Helmut Schöberl  
Schöberl & Pöll GmbH

EnerPHit refurbishment of the administrative high rise of the "Dachverband der österreichischen Sozialversicherungen"

Monte Paulsen | Chair

Graeme Stewart  
ERA Architects / Centre for Urban Growth and Renewal

First EnerPHit residential high-rise in North America: The Ken Soble Tower

SESSION 11
Stas Zakrzewski
ZH Architects

Developing a replicable methodology for successful Tall Passive House Buildings

Bai Yu
Beijing Institute of Residential Building Design & Research co., LTD

Construction control of key technologies in high-rise building of premium Passive House

Dragos-Ionut Artaatu
Passive House Institute

Monash University: Woodside building for technology and design

Monte Paulsen | Chair

SESSION 11
Building tours - Session 1
Mario Bodem
ING+ARCH

Retrofit transition of the landmarked hippopotamus house in the Nuremberg Tiergarten towards a zero-energy building (Nuremberg, DE)

Rena Vallentin and Gernot Vallentin | ArchitekturWerkstatt Vallentin GmbH
Herr Felkner | IBP Ingenieure

An ecological living quarter in Munich's Prinz Eugen Park (Munich, DE)

Joe O'Connell | Kier Constructions
Jason Fitzsimmons, Giles Boon | Gale & Snowden Architects

St Sidwells Point Leisure Centre (Exeter, UK)

Gülümser Özpinar
3T Mühendislik Taahhüt Sanayi ve Ticaret Ltd. Sti

Gaziantep Ecological Building (Gaziantep, Turkey)

BUILDING TOUR 1
Ben Riddle
Ecospheric
Zetland Passive House (Manchester, UK)

Phil Bixby
Constructive Individuals
Three-storey single-family dwelling (York, UK)

Piero Russo
Piero Russo Ingegneria Architettura
First multi-family building PH certified in Italy (Putignano, Italy)

Melvin Lau
Integra Architecture
1020 Legacy Way (Whistler, Canada)
SESSION 12
Workshop: Cost-efficient social housing
(German presentations with English subtitles)

Wednesday, 7 October 2020, 9:00 am
Silvia Uplegger
Referatsleiterin Bereich Energieeffizienz und Energieberatung, Abteilung Landeseinzuglau und Energie des hessischen Ministeriums für Wirtschaft, Energie, Verkehr und Wohnen

Grußwort

Dr. Jörg Lippert
Besonderer Vertreter des Vorstandes und Leiter Bereich Technik des BBU Verband Berlin-Brandenburgischer Wohnungsunternehmen e.V.

Grußwort

Oliver Kah
Passive House Institute
Begrüßung

Burkhard Schulze Darup
schulze darup & partner architekten

Einführung: Was der Gebäudsektor zum Erreichen der Klimaschutzziele beitragen kann

SESSION 12
Kosten und Wirtschaftlichkeit

Ester Gollwither
Passivhaus Institut

Kostenstruktur im Wohnungsbau – Einsparpotentiale und Kostentreiber

Oliver Kah
Passivhaus Institut

Wirtschaftlichkeit: Gesamtkostenbetrachtung im Wohnbau

Burkhard Schulze Darup
Chair
Praxiserfahrungen und Beispiele

Marc Großklos
Institut Wohnen und Umwelt GmbH
Minimierte Nebenkosten im „PassivhausSozialPlus“: Umsetzung einer Idee

Harald Konrad Malzer
Neue Heimat Tirol
„5-Euro-Wohnen“ in den Passivhäusern der NHT

Stefan Schautes
HOWOGE
Projektvorstellung: Sewanstraße / Projekt Quartier Detlev-Str

Burkhard Schulze Darup
Chair

Christoph Deimel
Architektenkammer Berlin, Arbeitskreis nachhaltiges Planen und Bauen
Energieeffizienter Wohnungsbau in Berlin

SESSION 12
Planungsempfehlungen und Zusammenfassung

Esther Gollwitzer
Passivhaus Institut

Planungsempfehlungen für den energieeffizienten Wohnbau

Burkhard Schulze Darup
Chair

Tanja Schulz
Passivhaus Institut

Planungsempfehlungen für den energieeffizienten Wohnbau
Yaling Hsiao
Passive House Institute

Jonathan Holmes
Passive House Institute New Zealand
Hawea Flat PassivHaus (Otago, NZ)

Siân Taylor
Team Green Architects
Team Green Architects Passive House (Arrowtown, NZ)

Merylese Mercieca
Blue Eco Homes
Passive House in Faulconbridge (Blue Mountains, NSW, Australia)

John Beurle
Passive House Services
Noonameena (Aboriginal word for "Bush Resting Place"), (Central Victoria, AU)

Dongyue Zhang
Sayyas window industry co. LTD
Sayyas Passive Factory (Harbin, Heilongjiang, China)

Lu Mingzhe and Buff Mirko
Luther Design
Refurbishment of an Office Building (Shanghai, China)
Yaling Hsiao
Passive House Institute

Yingying Li
Fivewin Architectural Technology Group
Fivewin Science and Technology Museum (Zhengzhou city, Henan Province, China)

Zen Tian
Lon/for
Gaobeidian Railway City Residential Project (Gaobeidian, China)

Rolf Demmler
SoftGrid (Shanghai) Co. Ltd.
Tianjin EcoCity Passive House Apartments (Tianjin, China)

Yan Liang
Sino-German Ecopark Passive House Building Technology Co., LTD
Passive House Technology Center (Qingdao, China)

Yan Liang
Sino-German Ecopark Passive House Building Technology Co., LTD
Passive House residential community "Green Gongyuan" (Qingdao, China)

Haifeng Guo, Ruixue Li and Yu Bai
Beijing institute of Residential Building Design & Research co., LTD
X88 kindergarten (Beijing Yizhuang district, China)
SESSION 13
Non-residential projects

Wednesday, 7 October 2020, 5:00 pm
Sara Velázquez Arizmendi
VARquitectos
Medical Center in Spain: Design, construction and operation, first results of monitoring

Stuart Hood
Integral Group
Clayton Heights Community Centre

Dragomir Tzanev | Chair

Barry Mc Carron
South West College
Erne Campus: Inspiring the future of education
Andrew Peel
Peel Passive House Consulting

Reducing the Goods: Insight into North America's first Passive House production facility

Julien Rivat
'Atelier RIVAT' architectural agency

ARTIC 42 - the first Passive House hospital facility (dialysis clinic) in France

Dragomir Tzanev | Chair

Nick Grant
Elemental Solutions

Applying Passivhaus experience to low cost archive buildings: First year results

SESSION 13
SESSION 14
Passive House Policy

Wednesday, 7 October 2020, 5:00 pm
Cillian Collins
Perkins and Will Architects

People, Policy and Projects: the uptake of Passive House in British Columbia

Lucio Picciano
DLP Architecture inc

The transformation of a design practice and a city

Bronwyn Barry | Chair
Mike Fowler  
Passive House Northwest and Mithun

Washington state energy code path is now equal to PHI low-energy building standard

Dragomir Tzanev  
EnEffect, Center for Energy Efficiency

Fighting off energy poverty: can Passive House be the answer?

Giorgia Tzar  
Passive House Institute

Passive House and the SDGs: Connecting an international building standard with global aims

Bronwyn Barry | Chair
SESSION 15
Passive House Retrofits in Germany
(German presentations with English subtitles)

Thursday, 8 October 2020, 9:00 am
Harald Konrad Malzer
NEUE HEIMAT TIROL Gemeinnützige Wohnungs GmbH

Sinfonia: The "French Houses" of Tirol are ready for the energy transition

Mario Bodem
ING+ARCH

Retrofit transition of the landmarked hippopotamus house in the Nuremberg Tiergarten towards a zero-energy building

Dirk Mobergs | Chair

Lars Beckmannshagen
ZEBAU GmbH

From school to apartment building: An EnerPhit transition

SESSION 15
Carsten Grobe  
Architektur- und TGA-Planungsbüro Carsten Grobe Passivhaus

Retrofit transformation of the Danish Expo pavilion into a plus-energy building with a PVT heat pump system

Benjamin Krick  
Passive House Institute & University of Applied Sciences Darmstadt

Windows: That's how you do it right!
SESSION 16
Passive House projects across the globe

Thursday, 8 October 2020, 9:00 am
Ingo Theoboldt
Passivhusbyrán

Gibraltar Guesthouse: student flats in Gothenburg

Clara Lorente Martin
LOBE

Infinity: Massivsocialhaus, 150 Passivhaus social dwellings in Getafe, Madrid (Spain)

Elrond Burrell | Chair

Shih-Chieh Yeh
BWK Green Architecture Co. Ltd.

Bangkok first concrete Passive House

SESSION 16
Stephen Quinn
Peel Passive House Consulting Ltd.

Passive House in Cold Climates

Camille Sifferlen
Passive House Institute

Namaste Passive House

Elrond Burrell | Chair

Esteban Pardo
PLAY ARQUITECTURA S.L.

First Passivhaus Plus office building in Spain

SESSION 16
Final plenary

Thursday, 8 October 2020, 5:00 pm
Final plenary

Monte Paulsen
RDH Building Science

Opening of the final plenary

Marina Köhn
German Environment Agency (Umweltbundesamt), Green-IT

IT centres of the future: New concepts and solutions for the environment

Susan Aitken
Leader of Glasgow City Council

A City In Transition: Glasgow And The Passivhaus Standard
Final plenary

Summary of the 24th International Passive House Conference

Wolfgang Feist
Founder Passive House Institute

Outlook and closing of the conference
Summary of the 24th International Passive House Conference
Marine Sanchez
RDH Building Science

Rainer Pfluger
University of Innsbruck

Burkhard Schulze Darup
schulze darup & partner architekten

Ann-Marie Fallon
Architype

Monte Paulsen
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<td>Miwa Mori</td>
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24th International Passive House Conference
Registration and additional information:
passivehouseconference.org