



The 24th International Passive House Conference will offer 16 online presentation series, virtual excursions, the Passive House specialists' exhibition and extensive networking opportunities. For municipalities, there will be an online workshop on the topic of cost-effective social housing construction. © Rendering of Heidelberg Convention Center; Degelo Architects

Pointing the way – then and now

Ten good reasons to attend the Passive House Conference this year

Darmstadt, Germany. Construction of the first Passive House in the world started 30 years ago in Darmstadt, Germany. The building physicist Wolfgang Feist had developed the Passive House standard prior to this. In the autumn of 1990, he started putting theory into practice with the construction of the private terraced housing complex. Since then, countless buildings have been built to the climate-friendly Passive House standard around the globe. Current projects and research findings will be presented at the 24th International Passive House Conference from 20 September until 8 October 2020. The Passive House Institute presents ten reasons for attending the online conference.

1. Up-to-date and diverse

Climate-friendly construction is indispensable for global climate protection. Current themes relating to energy efficient and climate-friendly construction and retrofitting will be presented during the 16 online presentation series. Passive House projects, districts, components and supply concepts from around the world will be introduced. Additionally, the topics of cost-effective and socially compatible multi-storey housing construction, summer comfort, professional education and further training, as well as



Construction of the first Passive House building in the world began 30 years ago. Right: The current state of the building with a subsequently added PV system.
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Passive House tools, will be discussed.



By attending the conference, Passive House tradespeople and designers receive credit points for renewing the certificates. © Passive House Institute

2. Missed a presentation? No problem!

The 24th International Passive House Conference with the focal theme "Passive House – building the future – sustainably!" will be offered as an online event. Participants will therefore be able to connect conveniently and easily from anywhere in the world via their computers. The presentations will take place on Wednesdays and Thursdays in the morning and late afternoon or evening (CEST). In this

way, attendance can be integrated into the professional workday. However, it is not even a problem if you cannot attend at times: all conference participants will receive a link to watch the recorded presentations for a period of three weeks.

3. Renowned speakers

Every conference depends also on its speakers for its success. The founder of the Passive House Institute, Professor Wolfgang Feist, and the renowned climate scientist Professor Stefan Rahmstorf will both address the 24th International Passive House Conference during the opening plenary. The oceanographer Rahmstorf has long been pointing out the consequences of global warming. During the **opening plenary on Sunday, 20 September 2020** starting at 3 pm (CEST), addresses will also be held by Thorsten Herdan of the German Federal Ministry of Economics, Professor Dirk Messner, the new president of the German Federal Environmental Agency (UBA), Alexander Bonde, General Secretary of the Foundation for the Environment (DBU), and Jens Deutschendorf, state secretary of the Hesse Ministry of Economics.

4. Virtual specialists' exhibition

The right components are necessary for putting climate-friendly construction into practice. Therefore, the Passive House specialists' exhibition constitutes an integral part of every Passive House Conference. For the online conference, the specialists' exhibition has also been turned into a virtual event. The conference participants will thus have the whole three weeks to become familiar with products for energy efficient construction and retrofiting. Virtual tours and personal contact with the manufacturers are also included. The Passive House specialists' exhibition will already open its virtual doors on 17 September 2020.



For three weeks, the virtual Passive House Exhibition gives visitors the chance to explore products from the world of energy efficient construction and retrofiting. There will also be tours through the exhibition and the exhibitors can be contacted in the live chat. © Passive House Institute

5. Virtual networking? Better than you would think!

So you think an online event doesn't offer the same networking experience as one at the personal level? Virtual networking is more effective and entertaining than you might imagine - try it!

6. Further training credit points

Further training credit points are available for participation in the 24th International Passive House Conference. Passive House designers and Passive House tradespersons can obtain credit points that are necessary for renewing their certificates.



Virtual networking is more effective and more entertaining than one would think. © Passive House Institute

7. Curious about Passive House buildings?

What would a conference about Passive House projects be without visiting one? That is why all International Passive House Conferences additionally offer building tours. This year will be no different: virtual guided tours will provide the unique opportunity to view interesting and completely diverse Passive House buildings from around the world in two hours - possible only in an online format!

8. One ticket for everything

Another first is our all-inclusive ticket for presentations (with links to the videos), specialists' exhibition, excursions and networking. The ticket provides access for the whole three weeks.



Passive House supermarkets: An Austrian company shares its experiences. © MPREIS, Lukas Schaller

9. For members and municipalities

IG Passivhaus, Passive House Austria and International Passive House Association (iPHA) members will receive the ticket for the 24th International Passive House Conference at a considerable discount. Discounts are also available for communal representatives.

10. Not only for experts!

The Passive House Institute wants to disseminate knowledge. Therefore, we offer the Institute's digital learning programme at a substantially lower price until the end of the 24th International Passive House Conference on 8 October 2020. As an introduction to the Passive House Conference, this e-learning option supports all those who do not (yet) consider themselves experts in this area. First-time users will also receive a discount voucher for the ticket to the 24th International Passive House Conference. Furthermore, e-learning users can prepare for the examination for the Certified Passive House Designer certificate and for the PHPP and designPH planning tools workshop.

All information can be found online at www.passivehouse-conference.org

24 INTERNATIONALE PASSIVHAUSTAGUNG 2020

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General Information

Passive House buildings

With the Passive House concept the heat loss that typically takes place in buildings through the walls, roof and windows is drastically reduced. With the five basic principles – high-quality thermal insulation, windows with triple glazing, avoidance of thermal bridges, an airtight building envelope, and a ventilation system with heat recovery – a Passive House building needs very little energy. Passive House buildings can therefore dispense with *classic* building heating systems. Such buildings are called "passive houses" because a major part of their heating demand is met through "passive" sources such as solar radiation or the heat emitted by occupants and technical appliances.

In a Passive House building the heat is retained for 10 to 14 days because it escapes very slowly. For this reason, active heating is needed only during extremely cold days and only a small amount of energy is required for providing this remaining heating. A Passive House building also offers an advantage in the summer: the excellent level of insulation ensures that the heat stays outside, therefore active cooling usually isn't necessary in residential buildings. Due to the low energy costs in Passive House buildings, the utility costs are predictable - a fundamental principle for affordable homes and social housing. A Passive House building thus consumes about 90 percent less heating energy than an existing building and 75 percent less energy than an average new construction.

Passive House & NZEB

The Passive House Standard already meets the EU requirements for Nearly Zero Energy Buildings. According to the European Buildings Directive *EPBD*, all member states must specify requirements for so-called NZEBs in their national building regulations. These came into effect in January 2019 for public buildings and will apply for all other buildings from the year 2021.



The world's first Passive House building in Darmstadt-Kranichstein.
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