



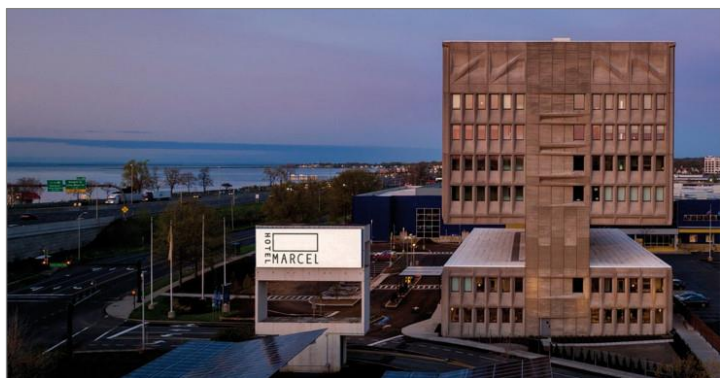
The 27th International Passive House Conference will focus on exemplary building retrofits: the 300-year-old Mayerhof in Tyrol was equipped with prefabricated insulation made of wood fibre boards, **Passive House principles**. © Michael Flach

Getting down to business!

Highly energy-efficient buildings: The 27th International Passive House Conference kicks off

Darmstadt, Germany. Every building can be renovated to be energy-efficient, and every renovation step counts. This will be demonstrated at the 27th International Passive House Conference, which will begin immediately after Easter. Following its focal theme, "**Retrofit. Have an impact**", the conference will present the successful transformation of buildings with high energy consumption into climate-friendly structures with low energy costs and a high living comfort. There will also be excursions and workshops, including a free offer for municipalities.

The trade exhibition with Passive House components is also open to the public on both days. Here is an overview of the highlights of the **conference programme**.



The Hotel Marcel in Connecticut, USA, is a climate-friendly building with an ocean view that offers a high level of comfort following its retrofit with Passive House components.
© Seamus Payne Hobhouse

The 27th International Passive House Conference hosted by the Passive House Institute will be held from **5- 7 April 2024**. The event will take place mainly on the Technology Campus of the University of Innsbruck. Numerous international examples of retrofits to the EnerPHit standard will be presented, some of which are part of the EU project **outPHit**. The modernisation of all these buildings has been combined with highly energy efficient Passive House components. The contrasts

in some of these buildings is especially fascinating. The **Mayerhof building in Tyrol**, which is over 300 years old, was modernised using Passive House components, as was the **Hotel Marcel in Connecticut**, USA, not far from Yale University. The striking office building from the 1960s is now a climate-friendly hotel with a high level of indoor comfort for its guests.

EnerPHit for the future

More presentations on the topic of retrofits: the transformation of a **historic Carriage House in New York** into a comfortable residential building, the world's first **EnerPHit museum** in Greece, and the energy retrofit of urban housing complexes in **London** and **Innsbruck** using Passive House components, to name a few. **Building tours** will be made to some of the buildings in Innsbruck, including some multi-family apartment blocks.

Living comfort during hot weather

The **summer comfort** aspect is becoming increasingly important in all parts of the world. Highly energy-efficient buildings are not only advantageous in winter, but also in the warmer months of the year: good thermal protection helps to keep the heat outside. Projects in warm climate zones put special demand on planning so that a good level of living comfort can be ensured. In the lecture series "Passive House in challenging climates", a presentation on an apartment block in southern Spain will be given under the title "**Cool comfort in sunny Malaga**".



Cool comfort in sunny Malaga – one of the presentations in the lecture series "Passive Houses in challenging climates". © PHI



Passive House and sustainability will be the focus of the conference on Saturday. The insights gained with a Passive House sports hall in East Westphalia will also be presented in this series. © Passive House Institute

Passive House and sustainability

The Sande sports hall in east Westphalia, Germany, is presented in the "**Passive House and sustainability**" lecture series. After 15 years of use, numerous insights and results are now available which are valuable for further projects of this building type. This series of lectures will also look at blow-in insulation systems as a key technology for the renovation of existing buildings. Other sessions in Innsbruck will discuss **non-residential buildings** built to the Passive House

standard: schools in Sweden, the new leisure centre in Exeter in the UK and a kindergarten built as a timber construction in Spain.

Invitation to workshops

Before the official start of the conference, the organisers will invite participants to attend **workshops** in Innsbruck. The focus of the **outPHit** programme will once again be on retrofits. Another workshop in English and Spanish focusses on Passive House quality windows in Southern Europe and Latin America. The free of charge workshop on "Energy efficiency in public buildings" is addressed to local authorities and housing associations.



Among the several workshops during the conference is an invitation on "Energy efficiency in public buildings" for municipalities and housing associations. © PHI



Networking and excursions

The 27th International Passive House Conference will once again offer numerous opportunities for networking with the international participants. These opportunities include the big Passive House Party on the Friday of the conference and the **IPHA-Dinner** hosted by the International Passive House Association on Saturday. At the end of the conference, the organisers will offer the opportunity to visit numerous Passive House and EnerPHit

Conference attendees are invited to take part in four excursions to new build and retrofit projects in Innsbruck and Tyrol.
© Passive House Institute

projects in Innsbruck and Tyrol. Three bus **excursions** will take participants to interesting retrofit and new-build projects, while a tour on foot will provide the opportunity to get to know projects in the Innsbruck city area.

Public guided tour

Good components are essential for a successful energy retrofit. At the **Passive House Exhibition**, conference participants can find out about highly energy-efficient components on-site during the two days of the conference. Ventilation units with heat recovery, products for airtightness, windows, and wall and roof construction will be presented here, among other things. The Passive House Institute will also be represented at the exhibition. The exhibition will be open to the public and there will be a **public guided tour** (in German) at 2:30 pm on **6 April 2024**, the Saturday of the conference. Free admission will be possible at the conference reception desk.



The Passive House Exhibition with highly energy efficient components will be accessible to the general public, on Saturday there will also be a public guided tour.
© Passive House Institute

German and English

The presentations at the **27th International Passive House Conference** will be in German and English. German presentations will offer simultaneous translation into English. There is a special ticket offer for students. The latest information can be found here: www.passivehouseconference.org. The hashtag for the conference is **#27intPHC**.

Representatives of the media interested in attending the 27th International Passive House Conference may send an e-mail to presse@passiv.de.



This press release is available in different formats [here](#) together with **images**.

27TH INTERNATIONAL PASSIVE HOUSE CONFERENCE 2024

Organiser



Co-organiser



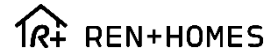
With the kind support of



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Deutsche Bundesstiftung Umwelt



General information



outPHit: This EU project supports far-reaching and cost-efficient building retrofits based on Passive House principles. With numerous model projects in Europe, outPHit demonstrates ways of reliably implementing energy-efficient retrofits. www.outphit.eu



Passive House Award: That's how diverse Passive House is! Finalists and winners of this architecture prize are presented in this [Flipbook](#).



#EfficiencyNOW: The aim is to reduce fossil energy consumption. The Passive House Institute has started the [#EfficiencyNOW](#) campaign. All information on [Passipedia](#).



Socially compatible and highly energy efficient apartment blocks built to the Passive House standard.
© Neue Heimat Tirol

Passive House buildings: With the Passive House concept, the heat loss that typically takes place in buildings through the walls, windows and roof is drastically reduced. By applying the following five basic principles **1.** Excellent thermal insulation, **2.** Windows with triple glazing, **3.** A ventilation system with heat recovery, **4.** Avoidance of thermal bridges, **5.** An airtight building envelope, a Passive House building needs very little energy for heating and cooling.

A major part of its heating demand is met through "passive" sources such as solar radiation or the heat emitted by occupants and technical appliances. SINFONIA and many other projects have demonstrated that the Passive House concept works well also in deep retrofits of existing buildings. The Passive House Institute has developed the [EnerPHit](#) standard for this purpose.

Other advantages of the Passive House & EnerPHit standards: **1.** Increased thermal comfort. **2.** In winter the heating demand is very low; the heat escapes out of the house very slowly. **3.** The cooling demand of Passive House buildings in the summer is low. **4.** The utility costs are predictable due to the low energy costs – which is the basis for affordable homes and social housing.

Passive House and renewable energy: The Passive House standard and generation of renewable energy on-site is an excellent combination. The Passive House Institute has also introduced the building classes *Passive House Plus* and *Passive House Premium*. The pioneer project in Darmstadt was equipped with a photovoltaic system in 2015 and therefore received the *Passive House Plus* certificate.



In 2021, the world's first Passive House building in Darmstadt celebrated its 30th anniversary! © P. Cook

Building uses: There are now Passive House buildings for all types of building uses. In addition to residential-use and office buildings, there are also kindergartens, schools, sports halls swimming pools and production facilities built to the Passive House standard. The new highly efficient building of the first Passive House hospital in the world started operations in February 2023.

PHPP: The planning tool PHPP (Passive House Planning Package) is available for realistic and reliable energy balance calculation and planning of highly energy efficient buildings. This Excel-based tool is routinely used worldwide for planning and quality assurance of Passive House buildings and EnerPHit deep retrofits.

Passive House Institute: Founded by Professor Wolfgang Feist in 1996, the Passive House Institute is an independent organisation leading in research and development relating to highly energy efficient construction and building retrofits.



Prof Dr Wolfgang Feist
© Peter Cook

iPHA: The purpose of the membership based International Passive House Association (iPHA) is the dissemination of knowledge relating to highly energy efficient construction and retrofitting as well as networking.

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