



The Bahnstadt in Heidelberg is drawing much attention. The city has made the extremely energy efficient building standard mandatory for the world's largest Passive House settlement: residential buildings as well as children's day care centres, a school, a fire station, shops, a cinema, a DIY store and the planned fitness and wellness centre have all been designed as Passive House buildings.

Pictures (4): Passive House Institute

## Heidelberg is already building better

Passive House conference "Achieve Better Buildings!" on 3 and 4 May

**Darmstadt, Germany.** Heidelberg doesn't only have a beautiful historic city centre, it also boasts *new* urban areas that are worth seeing. The Bahnstadt in particular is striking: it is the largest Passive House district in the world. This makes Heidelberg an ideal venue for the Passive House conference "Achieve Better Buildings!". Besides expert talks and practical workshops, the Passive House Institute will also offer many new features in Heidelberg. In addition, there will be special offers for participating municipalities and housing associations.



The Passive House Standard for indoor and recreational pools will also be a topic at the Passive House conference "Achieve Better Buildings!" in Heidelberg.

### Summer comfort in the Passive House

The Passive House Conference "Achieve Better Buildings!" will take place on **3 and 4 May 2019** at the City Hall in Heidelberg. Experts will give specialist presentations on indoor and recreational swimming pools built to the Passive House Standard, the first Passive House Hospital in the world in Frankfurt, and summer comfort. The city of Heidelberg is patron of the conference. Mayor Eckart Würzner will also give a speech, a welcoming address will be held by Franz Untersteller, Minister of the Environment of the German Federal State Baden-Württemberg. [Programme](#)

## Combining efficiency and building culture

On Friday, a panel session with high-ranking experts will debate the issue of how a high level of energy efficiency and building culture can be combined. In addition, a panel of experts will discuss how architects and designers can convince their clients of the advantages of the Passive House Standard. As with all Passive House conferences, numerous workshops will take place including workshops on the Passive House Planning Package PHPP, on balance calculation at the district level using the tool districtPH and on curtain wall façades. This time the cost of participation in the workshops is already included in the conference fee. [Programme](#)



The Passive House conference "Achieve Better Buildings!" will take place on 3 and 4 May 2019 in the historic City Hall in Heidelberg. A panel discussion will be held on the compatibility of energy efficiency and building culture.

## Passive House Slam premiere

For the first time, a Passive House Slam is being organised at the Passive House Conference. With this entertaining format on Friday evening, specific experiences relating to the construction of Passive House buildings will be described in short five minute talks. For our international audience an English language Slam will take place. The legendary Passive House Party will be held in the City Hall directly after this.

## Cool components

Parallel to the "Achieve Better Buildings!" Conference programme, there will be a two-day specialist exhibition in which manufacturers will exhibit their products for energy efficient construction and building modernisation, many of which have already been certified. After the conference, participants will be invited to take part in one of the excursions to Passive House projects in and around Heidelberg on Sunday.

## A visit to the Bahnstadt

One of the excursions will take visitors to the Bahnstadt in Heidelberg, which is the largest Passive House district in the world at present. The city has made the Passive House Standard mandatory for this area near the main railway station. Since 2010, many residential and non-residential buildings have been erected to the Passive House Standard, including three children's day care centres, a school, a civic centre, fire station, DIY store and a cinema. The construction of a shopping mall is under progress, a fitness and wellness centre is also planned.



A former freight station building in the Bahnstadt which now accommodates an event hall and a children's day care centre after an energy retrofit.

## "Refreshing"

"It is refreshing to see how the city of Heidelberg has demonstrated a liveable model for sustainable construction. As practised in the Bahnstadt, this can work everywhere. I hope that the conference in Heidelberg will lead to the dissemination of these approaches and will encourage others to follow suit", says Dr. Wolfgang Feist, Professor at the University of Innsbruck and founder of the Passive House Institute.

## Another visit to the Bahnstadt

The Bahnstadt in Heidelberg also serves as a model for the Bahnstadt in Gaobeidian in China. Many residential buildings are currently being built to the Passive House Standard in Gaobeidian, which is around 80 kilometres south of Beijing. A guesthouse and a museum have already been built in the city. The 23rd International Passive House conference will be held in Gaobeidian in September 2019. The Passive House Institute is thus inviting everyone to Passive House conferences in both Bahnstadt settlements in this year.

## Municipalities and housing associations

Climate protection at the municipal level is one of the most important tasks at present. Therefore, the organisers are offering participation in the full conference to representatives of municipalities and housing associations for a reduced price of €190. The expert talks on Delivering NZEB: Passive House Buildings in Europe, Affordable NZEB, Cooling and dehumidification as well as Deep retrofits are among the topics that are of interest to municipalities in particular, as well as the workshop on Climate protection at the district level - planning and evaluation using districtPH (in German).

The Passive House conference "Achieve Better Buildings!" is being organised by the Passive House Institute in cooperation with the city of Heidelberg. Members of iPHA and IG Passivhaus will receive a discount of 15 percent on the conference fee.

[www.heidelberg.passivhaustagung.de](http://www.heidelberg.passivhaustagung.de)

# ACHIEVE BETTER BUILDINGS!

## Passive House Conference Heidelberg 2019

### Patronage



### Organisers



### "Achieve Better Buildings!" is supported by:



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## General Information

### Passive House buildings

In Passive House buildings, heat loss is drastically reduced - by means of high-quality thermal insulation, an airtight building envelope and windows with triple glazing. In winter, preheated air is introduced into the building by a heat recovery ventilation system. In summer, the excellent level of insulation ensures that the heat stays outside. Altogether five basic Passive House principles allow these highly efficient buildings to dispense with *classic* building heating. 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. A Passive House thus consumes about 90 percent less heating energy than existing buildings 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 in 2021.

### Pioneer project

The first Passive House in the world was built 28 years ago in Darmstadt-Kranichstein (Germany) by four private homeowners. Dr Wolfgang Feist was one of them. Ever since the homeowners moved in with their families in 1991, these terraced houses have been regarded as a pioneer project for the Passive House Standard. After extensive technical testing, building physicists attest to the still unimpaired functioning of the first Passive House and its unchanged low heating energy consumption. With its newly installed photovoltaic system, the first Passive House now utilises renewable energy and received the Passive House Plus certificate for this reason.



The world's first Passive House building in Darmstadt.

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### Passive House and renewable energy

The Passive House Standard can be combined well with on-site renewable energy generation. Since April 2015, the new building classes "Passive House Plus" and "Passive House Premium" have been available for this supply concept. The first buildings in these two categories have already been certified, including private houses as well as office buildings.

### Passive Houses worldwide

Passive Houses buildings for all types of uses now exist everywhere. In addition to residential and office buildings there are also kindergartens and schools, sports halls, swimming pools and factories built as Passive House buildings. The first Passive House hospital in the world is currently being built in Frankfurt am Main. Interest in Passive House is growing. In view of the consumption of resources in industrialised countries and the need to contain global warming, municipalities, businesses and private people are increasingly implementing new constructions or retrofits to the Passive House Standard.

### Passive House Institute

The Passive House Institute with its headquarter in Darmstadt (Germany) is an independent research institute for highly efficient use of energy in buildings. The Institute founded by Dr. Wolfgang Feist holds a leading position internationally with regard to research and development in the field of energy efficient construction. Among other things, Dr. Wolfgang Feist was awarded the DBU Environmental Prize in 2001 for developing the Passive House concept.



Dr. Wolfgang Feist

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### Passive House Conference

The Passive House conference "Achieve Better Buildings!" will be held on 3 and 4 May 2019 in Heidelberg. [www.heidelberg.passivhaustagung.de](http://www.heidelberg.passivhaustagung.de)

The Passive House Institute will also host the 23<sup>rd</sup> International Passive House Conference on 21 and 22 September 2019 in Gaobeidian, China. [www.passivehouse-conference.org](http://www.passivehouse-conference.org)

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