

# The Science and Communication of Energy-Efficient Indoor Environments

**Tuesday November 10<sup>th</sup>, 2020**  
**12:00 - 14:30 UTC / GMT**

**07:00 - 09:30 (New York, US)**  
**13:00 - 15:30 (Brussels, BE)**  
**21:00 - 23:30 (Tokyo, JP)**

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**Registration is required:** A link to join the webinar will be included in the email confirmation

Progressing the scientific basis of indoor environmental quality is essential to understand which aspects can be better optimised to substantially reduce energy use in buildings. In recent years, IEA Energy in Buildings and Communities (EBC) international research projects have been investigating for this purpose both indoor air quality and thermal comfort. The embodied impacts of buildings and their services systems are also a focus of EBC's research. Other current EBC projects are expanding the programme's communications outreach, so the scientific and engineering research knowledge generated can be more widely shared, not only within the academic community, but also with policy and decision makers in industry and governments. The aim of this webinar is to share the outcomes of several concluding EBC research projects in this area and to provide updates on some of the innovative work taking place within the programme.

This webinar is organized by the International Energy Agency's Technology Collaboration Programme on Energy in Buildings and Communities. The webinar is facilitated by INIVE ([www.inive.org](http://www.inive.org)).

## Programme (UTC / GMT time)

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-  12:00 | Welcome by **Dr Takao Sawachi**, EBC Executive Committee Chair
-  12:05 | *Presentations - Part 1*
  - EBC Overview by **Prof Paul Ruysevelt**, EBC Executive Committee Vice Chair
  - EBC Annex 5: Air Infiltration and Ventilation Centre by **Dr Peter Wouters**
  - EBC Annex 68: High Indoor Air Quality in Low Energy Buildings, **Prof Carsten Rode**
  - EBC Annex 69: Adaptive Thermal Comfort by **Prof Yingxin Zhu**
-  Q&A moderated by **Prof Paul Ruysevelt**
-  13:20 | *Presentations - Part 2*
  - EBC Working Group on Cities and Communities by **Helmut Strasser**
  - EBC Annex 72: Life Cycle Impacts by **Rolf Frischknecht**
  - EBC Annex 74: Living Lab Platform by **Prof Karsten Voss**
-  Q&A moderated by **Prof Paul Ruysevelt**
-  14:20 | Summary by **Prof Xudong Yang**, EBC Quality Assurance Sub-Committee Chair
-  14:30 | *End of webinar*

### **Cost and registration**

Participation to the webinar is free but requires you to register for the event. The webinar will be limited to a maximum of 1000 persons. To register, please click on the “Register now” button above or visit [inive.webex.com](https://inive.webex.com).

### **What is a webinar?**

A webinar is a conference broadcasted on internet. To follow a webinar you must have a computer with a sound card and speakers or headphones. Once logged in the "conference room", you will be able to see the slides of the presentation and to hear the panellists' comments. You will also be able to ask written questions to the speakers, and to answer on-line surveys.

### **Hardware, software**

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### **About IEA EBC**

In recognition of the significance of energy use in buildings, in 1977 the International Energy Agency has established a Technology Collaboration Programme on Energy in Buildings and Communities (EBC). The function of EBC is to undertake research and provide an international focus for building energy efficiency. Tasks are undertaken through a series of ‘Annexes’, so called because they are legally established as annexes to the EBC ‘Implementing Agreement’.

The largest benefits arising from participation in EBC are those gained by national programmes, such as leverage of R&D resources, technology transfer, training and capacity-building. Countries lacking knowledge can benefit from the experiences of those with more expertise, thereby avoiding duplicated research efforts. In particular, countries can most easily realise the benefits of participation if their own experts have taken part in projects and have assisted in producing deliverables taking into account their national requirements and priorities.

At an individual level, the EBC Programme allows researchers and experts funded by national programmes and industry to pool their collective expertise to produce high quality project outputs. By taking part in the projects, they create and reinforce their own technical networks, the benefits of which remain long after the particular project has formally ended. This does not happen quickly, but over the course of three to five years, these networks of expertise become established as excellent international channels of communication.

EBC has currently 26 member countries. All member countries have the right to propose new projects, and each country then decides whether or not to participate on a case by case basis. Most EBC projects are carried out on a 'task shared' basis, in which participating organisations arrange for their own experts to take part. Certain projects are 'cost shared' in which participants contribute funding to achieve common objectives.