

IEA Technology Collaboration Programme
on Energy in Buildings and Communities Webinar

Building Energy Efficiency and Indoor Air Quality – Building Energy Codes, Data Utilization for Improving Energy Efficiency, and Air Cleaning

Tuesday 9th November 2021
12:00 - 15:00 UTC / GMT

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IEA Energy in Buildings and Communities (EBC) research projects are examining building energy codes, exploring data utilization for improving energy efficiency, and investigating air cleaning technologies. The aim of this webinar is to share the outcomes of ongoing EBC research projects in these areas and to provide updates on some of the innovative work taking place within the programme: building energy codes and regulations differ between countries and EBC is facilitating dialogue about them with a view to future improvements; high quality energy reporting for buildings at scale allows robust analysis to be carried out and reliable lessons to be learned from the data gathered; advanced analysis of energy data gathered through smart systems is helping to improve building control and performance; technologies to supplement ventilation with gas-phase air cleaning are being studied to confirm if both indoor air quality and energy criteria can be achieved is the focus of further EBC research. Although it has not been possible to arrange the planned EBC Technical Day in Japan due to the ongoing pandemic, their national research priorities and some short overviews of their work within the EBC programme will be provided during the webinar. This is being arranged for the benefit of the scientific and engineering research community, as well as for policy and decision makers in industry and governments.

Programme (UTC / GMT time)

- ✚ 12:00 | *Welcome*
by **Dr Takao Sawachi**, EBC Executive Committee Chair and Member for Japan
- ✚ 12:05 - 12:30 | Policies for Building Energy Conservation of Residential and Non-residential Buildings in Japan
by **Mr Takashi Imamura** (Counsellor, Housing Bureau, Ministry of Land, Infrastructure, Transportation and Tourism, Japan)
- ✚ 12:30 - 12:35 | Q&A
- ✚ 12:35 - 12:40 | *Introduction*
by **Dr Alexandra Albuquerque Maciel** (EBC Executive Committee Alternate Member for Brazil)
- ✚ 12:40 - 13:05 | EBC Working Group on Building Energy Codes
by **Mr David Nemptzow** (Working Group Leader and EBC Executive Committee Member for USA)
- ✚ 13:05 - 13:30 | Analysis of Real Building Energy Use at Scale, Building Energy Epidemiology (EBC Annex 70)
by **Dr Ian Hamilton** (Operating Agent, UK) and **Prof Hiroto Takaguchi** (Annex participant, Japan)
- ✚ 13:30 - 13:40 | *Q&A*

- ✚ 13:40 - 13:50 | *Break*
- ✚ 13:50 - 13:55 | *Introduction*
by **Prof Paul Ruysevelt** (EBC Executive Committee Vice Chair and Alternate Member for UK)
- ✚ 13:55 - 14:20 | Supplementing Ventilation with Gas-phase Air Cleaning (EBC Annex 78)
by **Prof Bjarne Olesen** (Operating Agent, Denmark)
and **Prof Shin-ichi Tanabe** (Annex participant, Japan)
- ✚ 14:20 - 14:45 | Data Driven Smart Buildings (EBC Annex 81)
by **Dr Stephen White** (Operating Agent, Australia)
and **Prof Yasunori Akashi** (Annex participant, Japan)
- ✚ 14:45 - 14:55 | *Q&A*
- ✚ 14:55 | *Closing Remarks* by **Dr Takao Sawachi**
- ✚ 15:00 | *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” button above.

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.

The webinar is facilitated by INIVE (www.inive.org).