WEBINAR

Open BIM for HVAC: From Design to Operation

THURSDAY 19 NOVEMBER 2026

13:30–15:00 Brussels, BE
12:30–14:00 London, UK
07:30–09:00 New York, USA
21:30–23:00 Tokyo, JP

REGISTER NOW

Registration required • Free participation • A link to join the webinar will be included in the email confirmation

Why this webinar

Building Information Modelling (BIM) is widely seen as a key enabler for energy-efficient buildings, yet its potential for heating, ventilation and air-conditioning (HVAC) systems is far from fully exploited. Information created during design is often lost on the way to operation, data exchange between software tools remains fragmented, and building services are rarely described in a way that supports automated planning, commissioning or fault detection. Open, vendor-neutral BIM standards such as IFC offer a way to overcome these barriers across the whole building life cycle.

This webinar presents recent work from IEA EBC Annex 91 “Open BIM for Energy Efficient Buildings” along this chain: from the automated planning of distribution systems in HVAC engineering, through the information requirements that ventilation and MEP systems need to support building operation, to knowledge graph-based AI agents for HVAC fault detection and diagnosis.

This webinar is organised by the AIVC in cooperation with IEA EBC Annex 91. The event is facilitated by INIVE.

Agenda (CET)

13:30	Welcome & Introduction	
13:35	Automated Distribution System Planning in HVAC Engineering Using Open BIM *David Maier-Jansen · CodePlan GmbH, Germany*	
13:55	Q & A	
14:00	BIM Meets Operation: Information Requirements for Ventilation System and MEP *Gerhard Zucker · AIT Austrian Institute of Technology, Austria*	
14:20	Q & A	
14:25	Knowledge graph-based AI Agents for HVAC Fault Detection and Diagnosis: impact of physical grounding *Rocco Giudice · University College London (UCL), UK*	
14:45	Q & A	
14:50	Discussion & closing remarks	
15:00	End of webinar	

Cost and registration

Participation in 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.

What is a webinar?

A webinar is a conference broadcast over the internet. To follow a webinar you must have a computer with a sound card and speakers or headphones. Once logged in the "webinar room", you will be able to see the slides of the presentation and to hear the panelists’ comments. You will also be able to ask written questions to the speakers, and to respond to online surveys.

Hardware, software

Our webinars are powered by WebEx. The only thing you need is a computer with a sound card and speakers or a smartphone or tablet. Before you can log in the "webinar room", WebEx will install the required application. If you are not a WebEx user, please visit the WebEx help page to check the system requirements and be informed on how to join a webinar. We recommend you join the event 5…10 minutes in advance.

About IEA EBC Annex 91

IEA EBC Annex 91 “Open BIM for Energy Efficient Buildings” (2024–2026) runs under the International Energy Agency’s Energy in Buildings and Communities (IEA EBC) Programme. The Annex aims to make the assessment and optimisation of energy efficiency an integral part of open BIM, to build the foundations for open BIM processes and data models that allow small and medium-sized enterprises to take part in complex BIM projects, and to advance the harmonisation and standardisation of open BIM processes and data models at national and international level.

About AIVC

Created in 1979, the Air Infiltration and Ventilation Centre is one of the projects/annexes running under the International Energy Agency’s Energy in Buildings and Communities (IEA-EBC) Programme. With the support of its member countries as well as key experts and various associations (REHVA, IBPSA, ISIAQ), the AIVC offers industry and research organisations technical support aimed at better understanding the ventilation challenges and optimising energy efficient ventilation.

The AIVC activities are supported by the following countries: Australia, Belgium, Canada, Denmark, France, Greece, Italy, Ireland, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, UK and USA.

About INIVE

The International Network for Information on Ventilation and Energy Performance (INIVE) was created in 2001 to establish a worldwide network of excellence for knowledge gathering and dissemination. Its current member organisations are Buildwise, Cerema, CETIAT, Ghent University, IBP-Fraunhofer and KU Leuven.

The organisation coordinates and/or facilitates various international projects, including AIVC, TightVent, venticool and Dynastee. It also operates the EBC Executive Committee Support and Services Unit (ESSU), on behalf of the Executive Committee of the Energy in Buildings and Communities (EBC) Technology Collaboration Programme (TCP) of the International Energy Agency (IEA). In addition, INIVE has coordinated the ASIEPI project dealing with the evaluation of the implementation and impact of the EU Energy Performance of Buildings Directive, the QUALICHeCK project aiming towards improved compliance and quality of the works for better performing buildings, BUILD UP — the European portal on Energy Efficiency — and the EPBD feasibility study 19a.