

3rd Online Mini Workshops
Series

Renovation Wave: Enablers and Accelerators for Ambition

2nd Webinar

A Breeze of Fresh Air? Ensuring Improved Indoor Air Quality is Delivered via the Renovation Wave

26th of November 2020
(09:30-10:45 CET)
Via GoToMeeting



For more information:
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Introduction



Adrian Joyce
EuroACE Secretary General



Instructions

- You are kindly asked to remain muted
- No cameras for the whole duration of the webinar
- Only speakers and moderator will stay unmuted
- A 20-25 minutes Q&A session will follow the presentation
- Ahead and during the Q&A session, questions will have to be sent to “Everyone” in the GoToMeeting chat box.
- Questions should be as concise as possible
- The moderator will group questions and then address them to the speakers
- If time does not allow to cover all questions, they will be forwarded to the speaker for later response
- The PowerPoint presentation and questions will be shared with you in due course



EuroACE – Energy Efficient Buildings

- The European Alliance of Companies for Energy Efficiency in Buildings
- Formed in 1998 by Europe's leading companies involved with the manufacture, distribution and installation of energy saving goods and services
- A business association working together with the European institutions to help Europe move towards an efficient use of energy in buildings (new and renovated)



EuroACE – Energy Efficient Buildings

** More than 200,000 employees & more than 900 production facilities and office locations in the EU **

Our specificity: our cross-sector representativeness

We represent all energy efficient technologies

>>> heating & cooling equipment, insulation, lighting, maintenance regimes and controls, ventilation equipment & windows



EuroACE – Energy Efficient Buildings

We believe that improving the energy efficiency of buildings, especially renovating existing buildings, is the most cost-effective method of:

- Creating employment and securing economic growth
- Alleviating energy poverty on the long-term
- Providing people with comfortable and healthy homes
- Meeting carbon reduction targets
- Achieving energy security



EuroACE – Renovate Europe Campaign



EU-wide political communications campaign
Focuses exclusively on ambitious energy
renovation of the building stock, motivating EU
and national institutions to take action
46 partners, including 18 at national level
High political support with the Champions
Together for Renovation

[#PrioritisePeople](#)
[#AccelerateRenovation](#)



Today's agenda

09:35-09:55 | Interventions:

"How to ensure high IAQ via the EPBD and other European Commission's initiatives"

Manfred FUCHS, C.1 DG GROW (European Commission)

"From COVID-19 to the Renovation Wave, good policies for adequate IAQ?"

Anita DERJANEK, REHVA

09:55-10:10 | Round of reactions by four selected EuroACE companies

AERECO, Carrier, Signify, VELUX

10:10-10:35 | Q&A Session

10:35-10:40 | Short Presentation:

"How the Renovation Wave links with the IAQ Agenda"

Pau GARCIA AUDI, C.4 DG ENER (European Commission)

10:40 - 10:45 | Conclusions



How to ensure high IAQ via the EPBD and other European Commission's Initiatives?



Manfred FUCHS
Senior Policy Assistant
DG GROW – C.1 (European Commission)





Indoor Air Quality



Indoor Air Quality

DON'T PANIC



Indoor Air Quality

- Design
- Installation (construction, refurbishment, renovation)
- Selection of products
- Management of buildings/apartments
- Occupant behaviour

Source control

- REACH
- EU-LCI values
- EN 16516 (CEN TC 351)



Design/management

- Renovation Wave
- EPBD
- Level(s) (sustainable buildings)
- “The Easy Way to Indoor Air Quality”
- National/regional building codes

From COVID-19 to the Renovation Wave, good policies for adequate IAQ?



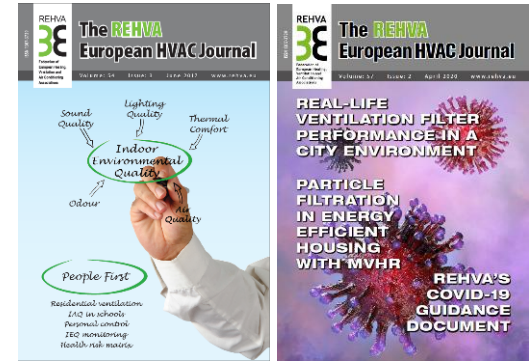
Anita DERJANECZ
Managing Director, REHVA



WHO ARE WE?



- ~60 years of research, technical guidance & advocacy for Better Health, Indoor Climate Quality and Energy Performance in all Buildings and Communities
- Representing 200.000 building services engineers & technicians from 26 countries
- A transnational knowledge platform between academics, HVAC engineers & manufacturers / building technology industry

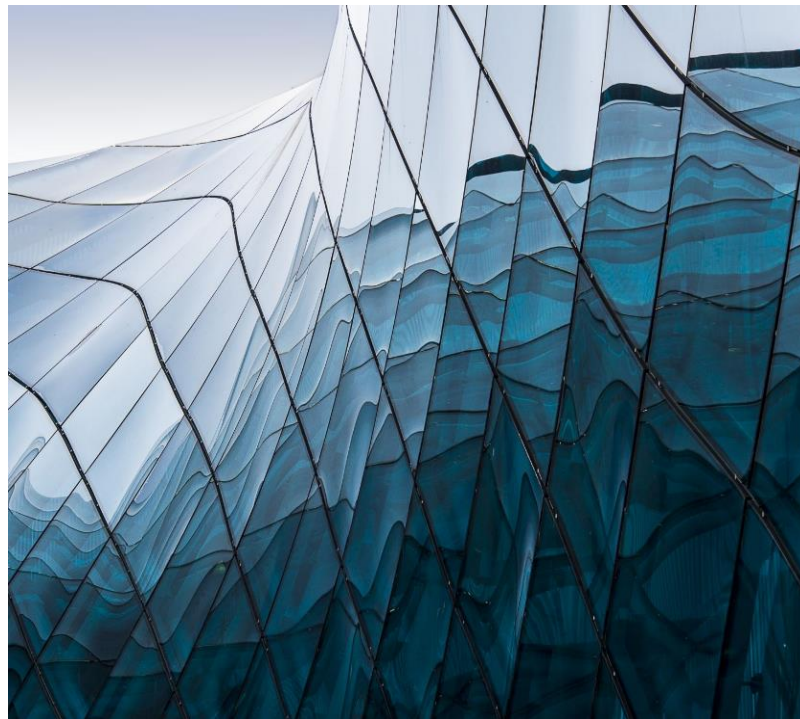


REHVA COVID-19 GUIDANCE REHVA COVID-19 COURSE REHVA COVID-19 WEBINAR REHVA COVID-19 FAQ

What COVID-19 teaches us about buildings

- ✓ Buildings are not well suited to mitigate the risk of airborne diseases.
- ✓ Some building requirements are inadequate in this pandemic.
- ✓ **CLEAN AIR MATTERS.** We need effective & adequate ventilation to decrease virus spread.
- ✓ Building design & operation has a major role in infection prevention & impacts people's health.

Science is not new. This pandemic changes how we think of indoor air quality and the economic cost & impact of NOT providing clean air.



Why indoor air quality matters?

- We spend +90% of our life indoors
- 74% of Europeans live in urban areas with high air pollution
- To increase energy efficiency, we sealed our buildings
- Indoor air may be up to 5x more polluted than outdoor air with much longer exposure
- **+0.5 Mio premature deaths** due to air pollution in Europe (2016,WHO)
- **2,2 million healthy years lost** annually due to poor air quality in Europe (EFA)
- **142 Mio work-days lost** due to air pollution in the EU, estimated cost **€18,5Bio** (2005)

NOW ADD COVID.....

The person who designs your building has more impact on your health than your doctor.

IAQ → IEQ → HEALTHY BUILDINGS

We need to build buildings for people.

Rise of IEQ in EU building policies & standards:

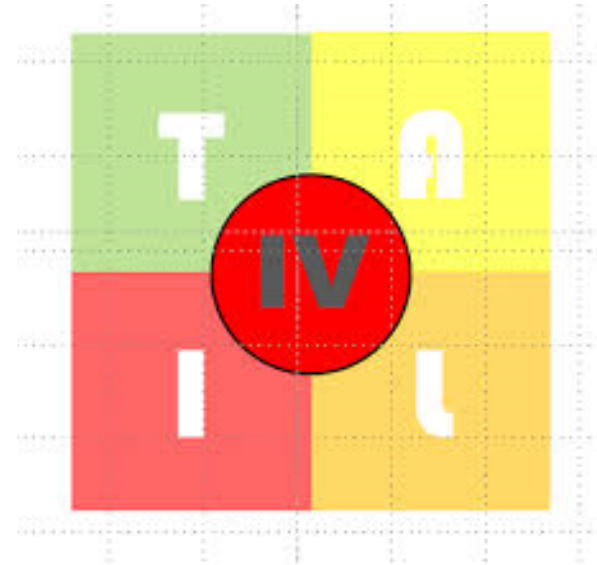
- IEQ mentioned in the revised EPBD
- EN/ISO 16798-1 standard in IEQ parameters
- EP “Cuffe report” calls for Healthy buildings, improving IEQ in renovation & to increase air quality standards
- The next EPBD revision should go further...



Credit: BPIE

Future building policies

- Integrated policies for people-centric buildings and sustainable construction.
- Health based ventilation guidelines & improved IAQ standards.
- EPBD's system performance approach can integrate IEQ (provided by technical systems).
- Future EPC-s with IEQ indicator
- Strengthening IEQ in building codes.
- Promote digital monitoring of IEQ & energy performance.



Source: [ALDREN project](#)

Renovation Wave: one time opportunity to kick-start a just healthy building transformation

- Guidance for MAs to properly address IEQ in LTRS.
- We must ensure high quality renovation to deliver energy performance & good IEQ.
- Focus on schools, social housing & public buildings: chance to provide clean air & indoor comfort the most vulnerable.
- Technical monitoring should be a mandatory part of technical assistance, linked to financing.
- Empower building users to understand & control their indoor air & climate quality.



Round of Reactions from EuroACE Companies



Simon Jones



Darcy Nicolle



Annette Steinbusch



Elisabeth Hoffmann



Round of Reactions from EuroACE Companies



Simon Jones
Commercial Director UK &
Ireland



Round of Reactions from EuroACE Companies



Darcy Nicolle
Government Relations at Carrier



Round of Reactions from EuroACE Companies



Annette Steinbusch
Manager Standards & Regulations



Example upper room



UV-C light

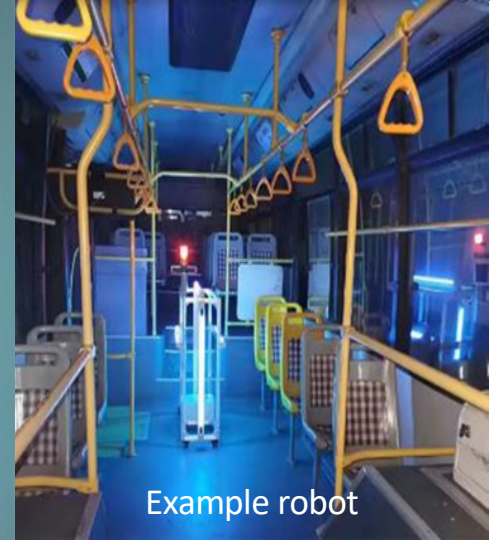
has the power
to disinfect



Example upper room



Example ventilation system



Example robot



EDGE Amsterdam West

Indoor Environmental Quality

- daylight and views
- electric lighting
- indoor air quality
- thermal comfort
- ventilation
- disinfection
- water quality
- acoustic comfort
- automation
- safety and security, etc.



IEQ Manifesto

leads to **Healthy Buildings** which support health, wellbeing and performance of the occupants

Round of Reactions from EuroACE Companies



Elisabeth Hoffmann
Senior Policy Adviser



Q&A Session

Please be patient while **Adrian Joyce** reads your questions to the speakers



How the Renovation Wave links with the IAQ Agenda?



Pau Garcia Audi

Policy Officer

DG ENER – C.4 (European Commission)



Conclusions



Adrian JOYCE
EuroACE President



Thank you!

