WS 28: Cost-effective deep renovation of buildings

Tuesday May 24 10:30-12:00

Organiser:	EU H2020 MORE-CONNECT EU H2020 EE REFURB IEA EBC Annex 56
Moderator:	Manuela Almeida, UMinho, Operating Agent IEA EBC Annex 56 Peter Op 't Veld, Huygen Consulting Engineers/UHasselt, coördinator MORE-CONNECT
Target Group:	Building and HVAC engineers, Architects, Managers in the housing sector
Speakers:	Manuela Almeida Peter Op 't Veld Tine Steen Larsen Ove Christen Mørck
Discussion Panel:	Griet Verbeeck (University of Hasselt) Anatolijs Borodinecs (Riga technical University) Targo Kalamees (Tallinn University of Technology) Ove Christen Mørck (Cenergia) Tine Steen Larsen (Aalborg University)
Short description:	The social and environmental urgency of large-scale integrated retrofitting of the European building stock is widely acknowledged. However, the building sector has not been able yet to devise a structural, large-scale retrofitting process and systematic approach. There is an urgent need for cost-effective solutions to accelerate deep renovation of buildings. Important is to promote deep renovation is to use the right balance between the energy conservation and efficiency measures for one side and the measures and technologies that promote the use of renewable energy on the other. As well as the optimization of material use versus energy reduction. New opportunities like the application of prefabricated modules for building renovation could be one of the solutions for this. A combination of product innovation, fully automated production processes and new market models have the potential to reduce costs, reduce the renovation time and disturbance for occupants and, at the same time, enhance quality and performances, both in terms of energy efficiency as indoor climate. In this workshop the latest finding a from key projects on cost-effective deep renovation will be presented as an introduction to further discussions. Projects addressed will be: H2020 MORE-CONNECT: Development and advanced prefabrication of innovative, multifunctional building envelope elements for Modular Retrofitting and smart Connections H2020 EE REFURB: Regional process innovations for Building renovation packages opening markets to zero energy renovations IEA EBC Annex 56: Cost Effective Energy and Carbon Emissions Optimization in Building Renovation
Expected Results	Identification of challenges and most promising technologies and concepts to come to cost effective deep renovation. Recommendations how to take into account end-user needs and expectations.