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December 2020



BUILD UP

Newsletter



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Overview articles

OVERVIEW | Integrated kits for building renovation

This method is mainly suitable for deep renovation operations. Insulation and additional layers can be superimposed to the outside of the pre-existing façade thereby improving the thermal envelope, with the substitution of windows, the integration of shading systems, the installation of mechanical ventilation systems, and the installation of photovoltaic or solar thermal modules in the façade.

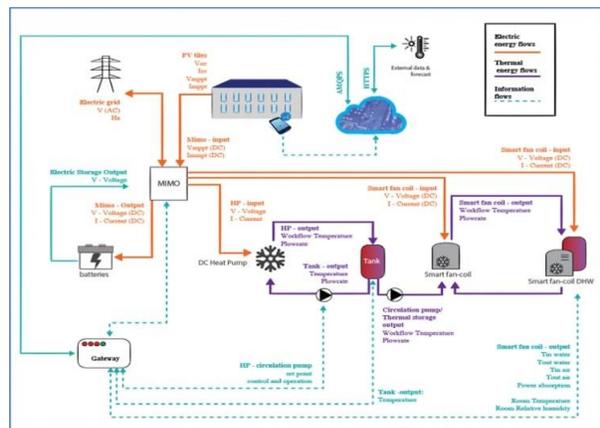
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The crest of the Renovation Wave: a toolkit to decarbonise the European building stock

On 14 October 2020, the European Commission launched the new Renovation Wave initiative under the EU Green Deal, aiming to rally popular support behind plans to cut polluting emissions from buildings and to reduce energy bills. Three-quarters of Europe's buildings are energy-inefficient by modern standards, and many are heated using fossil fuels.

[More](#)



Topic of the Month: SKILLS and training for NZE building sector

Every month, BUILD UP highlights publications covering a specific topic. December's Topic of the Month is 'SKILLS and training for NZE building sector'. The website is already available for contributions and BUILD UP's editorial board is eager to receive your discussion papers, news and articles.



[More](#)

Expert Talks – Adrian Joyce, Secretary General of EuroACE

The 10th edition of our Expert Talks hosts Adrian Joyce, Secretary General of EuroACE and Campaign Director of the Renovate Europe Campaign, which was initiated by EuroACE in 2011 in order to stop energy waste in buildings.

Expert Talk

Adrian Joyce

EuroACE,
Secretary General
Renovate Europe,
Campaign Director



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EU launches 'Renovation Wave' for greener, more stylish buildings

The European Commission launched a renovation wave and a 'new European Bauhaus' on 14 October, with the aim of rallying popular support behind plans to cut emissions from buildings and reduce energy bills.

[More](#)



The hidden treasures of renovation: results of the HQE Performance LCA renovation test

A renovation wave, which will accelerate the decarbonisation of buildings, is an initiative highlighted in the European Green Deal as essential to achieving a carbon-neutral Europe by 2050. Buildings account for 40 % of the European Union's energy consumption and 36 % of its greenhouse gas emissions. Now is the time to act and reduce this footprint.

[More](#)



The construction sector can pave the way for a green economic recovery

In recent weeks, the World Business Council for Sustainable Development has participated in several events centered around how the building sector is key to reviving the global economy and the importance of reinforcing sustainability going forward. During the 11th annual World Green Building Week and Climate Week New York, there was an unequivocal consensus among all participating organisations that we must build our way out of the social and financial crisis provoked by COVID-19, without losing sight of our net-zero targets.

[More](#)



Practices

Untapping multiple benefits: hidden values in environmental and building policies

The untapped / hidden benefits of environmental policies are huge, this piece of research showcases and places a monetary value on the added benefits to our health, society and the economy that



environmental investments and policy linked to energy efficiency can bring.

[More](#)

iBRoad ‘Stepwise and structured’

The ‘Stepwise and structured’ report investigates how surrounding policy instruments can be used to increase the dissemination, adoption, and impact of the iBRoad building renovation roadmaps developed within the iBRoad project.

[More](#)



Renovation of a six-storey office building in Saint-Étienne, France

The French Atelier Architecture Rivat, part of the Architecte Associé: atelier des vergers, designed the renovations for an office building originally constructed in masonry. In 2017, the renovation work was completed on the site which is located in the Rhône-Alpes region, in the suburbs of the town of Saint-Étienne, in a wooded area near Villeboeuf.

[More](#)



4RinEU deep renovation: the case of Mariënheuvel in Soest

The European Commission's H2020 project 4RinEU, coordinated by Eurac Research, aims to define technologies, methodologies and business models to increase the uptake of deep renovation in the European building stock.

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Explore

e-SAFE project

The EU-funded e-SAFE project will develop a deep retrofitting system combining energy efficiency, seismic resistance, financial feasibility and other social- benefits. It uses a multidisciplinary approach integrating experimental research and participatory design applied to one real and two virtual pilot projects.

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EUROPA project

The EUROPA project will develop an energy efficiency subscription (a set of technical specifications, procedures and standard contractual arrangements) to ensure guaranteed energy savings from the deep renovation of residential buildings.

[More](#)



EnDurCrete project: demonstration site – Krk bridge

Watch the installation process of the EnDurCrete elements at the Krk Bridge demonstration site in Croatia.

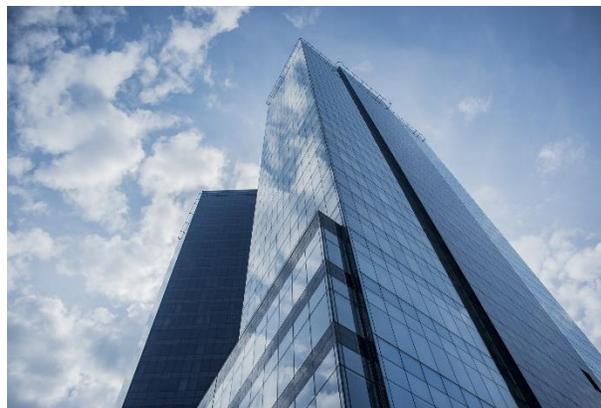
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C - R.E.A.L. project

The main objective of C-REAL is to establish a permanent, structural collaboration between a mortgage lender (Onesto) and a renovation adviser (Dubolimburg) to increase the degree of renovation and improve renovation quality in the province of Limburg in Belgium.

[More](#)



Learn

The ALDREN webinars

The ALDREN Project – Alliance for Deep RENovation in buildings – focuses on increasing the rate and quality of building renovations by developing performance assessments and certification schemes for deep renovation projects. ALDREN is targeted at office buildings and hotels.

[More](#)



Webinar | Designing, constructing and monitoring net-zero-energy (NZE) settlements

The purpose of this webinar is to open up the novel ZERO-PLUS approach to energy efficiency stakeholders from different fields of practice (i.e. architects, engineers, industry and professionals, utilities, large vendors, and other building-energy related companies and project owners) and to demonstrate the benefits of its implementation.

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Energy-saving tools

This web page includes a set of tools for introducing energy-saving actions in our daily life. It provides tips for energy efficiency in the field of building performances, electrical appliances, use of renewables and mobility.

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TripleA-reno combined labelling scheme: a resource for municipal buildings

The TripleA-reno combined labelling scheme is the first such approach developed especially for the renovation of dwellings, covering energy performance, indoor environmental quality, and well-being indicators.

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Combined Labeling: Energy performance, Indoor Environmental Quality, Well-being									
Building / Apartment: Copengartenkilen, Demonstration building, Apartment 2									
Date: 25.10.2020									
RESULTS OF THE COMBINED LABELLING									
Measurement period	Energy efficiency class	Calculated total primary energy use	Calculated delivered energy use	Measured delivered energy use	Share of RES	Average U value	Well-being and Indoor Environmental Quality	Measured well-being and Indoor Environmental Quality	Energy performance indicator
both heating and cooling season	F	201 kWh/m ²	158.85 kWh/m ²	185 kWh/m ²	0.04 %	1.23 kWh/m ²	58% Weak	63% Acceptable	A
Energy performance indicators									
Number	Name	Unit	Reference / Description	Value					
1.1	Energy efficiency class	-	Align with national energy performance certification (NPE)	F					
1.2	Calculated total primary energy use	kWh/m ²	Align with EN 15603 and EN ISO 15709, or EN ISO 15200 standard series	201					Well-being and IQ indicators
1.3.1	Calculated delivered energy use (fuel)	kWh/m ²	Align with EN 15603 and EN ISO 15709, or EN ISO 15200 standard series	0	100.00%				Excellent
1.3.2	Calculated delivered energy use (electricity)	kWh/m ²	Align with EN 15603 and EN ISO 15709, or EN ISO 15200 standard series	0.85	50.88%				Good
1.3.3	Calculated delivered energy use (district energy)	kWh/m ²	Align with EN 15603 and EN ISO 15709, or EN ISO 15200 standard series	158	100.00%				Acceptable
1.3	Calculated delivered energy use	kWh/m ²	Sum of calculated delivered energy use	158.85	100.00%				Weak
1.4.1	Measured delivered energy use (fuel)	kWh/m ²	Based on measurement or energy bills, being consumption without any correction	0	0.00%				Very weak
1.4.2	Measured delivered energy use (electricity)	kWh/m ²	Based on measurement or energy bills, being consumption without any correction	22					

Events

Introducing hybridGEOTABS – comfort supplied in a sustainable way!

hybridGEOTABS buildings offer huge potential to meet the key goals set for buildings in the European Green Deal. Building-integrated radiant heating and cooling systems and geothermal heat pumps are a match made in heaven, enabling very high energy efficiencies and the flexibility of thermal storage, providing giving users freedom of space and high thermal comfort.

[More](#)



BAU ONLINE - Future of Building Forum

BAU ONLINE will feature talks and discussions from the forums as live streams and recorded videos- for a global audience. In addition, companies will have the opportunity to present their products virtually via their own online sessions.

[More](#)



Online conference 'So you think you're green? Focus on Housing'

This second event will focus on the impacts of housing, due in particular to energy use and building options. Based on scientific outcomes, we will learn how different solutions can help to reduce Luxembourg's carbon footprint, and whether or not there are any trade-offs to be considered before changing our home lifestyles.

[More](#)



Klimahouse 2021

Klimahouse 2021, the leading trade fair for sustainable building and energy efficiency, has reinvented itself into Klimahouse Digital! The new, fully digital format will present numerous conferences and experts, and presentations of the most innovative products from the best companies,. It will be accessible to a wide audience via live streaming so you will not have to move from your desk.

[More](#)



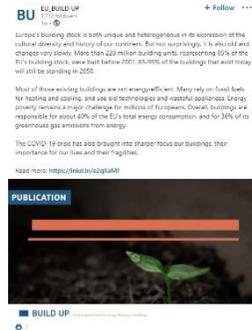
Social media



Build Up on Twitter

Faster #deeprenovation? The PLURAL project aims to design, validate and demonstrate a palette of versatile, adaptable, scalable, off-site prefabricated plug and play facades accounting for user needs ("Plug-and-Use" kits).

[More](#)



Build Up on LinkedIn

Europe's building stock is both unique and heterogeneous in its expression of the cultural diversity and history of our continent. But not surprisingly, it is also old and changes very slowly. More than 220 million building units, representing 85% of the EU's building stock, were built before 2001

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