

BUILD UP

Newsletter



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Overview articles

Topic of the month: Energy Performance Certification and Energy Labelling

Every month, BUILD UP highlights publications covering a specific topic. The topic of the month for July and August is 'Energy Performance Certification and Energy Labelling'. Our editorial board is eager to receive your discussion papers, news, and articles. Become a contributor!

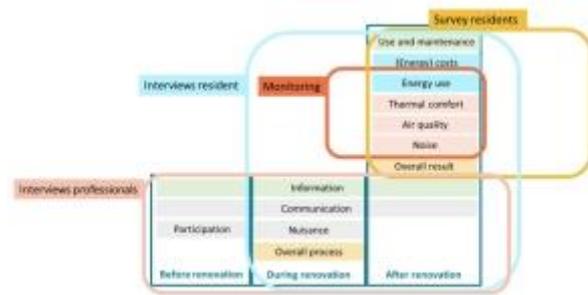


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Monitoring retrofitted (N)ZEB dwellings: Lessons learned from current practices

Monitoring the energy performance of buildings is crucial to determine the effect and magnitude of the efforts to decrease the environmental impact of the built environment. In the case of renovated homes, monitoring their performance is also important not only to estimate how the occupants may affect the estimated energy performance of the buildings, but also to investigate the effects that the renovated measures may have on the occupants' health, comfort, and satisfaction.

[more](#)



Overcoming the main barriers to the uptake of building retrofit through an industrialised approach

This article discusses the market uptake of the industrialised solutions for building retrofit, highlighting the main barriers and perspectives, and trying to understand how digitalisation and industrialisation can accelerate the rate of deep renovation within the building sector. Furthermore, the effectiveness of these approaches will be evaluated, and how when coupled with new market solutions to make the renovation process as successful and appealing as possible, these can be exploited to meet decarbonisation and sustainability goals defined by the European Commission by 2050.

[more](#)



BUILD UP Expert Talks: Dr. Bruno Daniotti & Davide Madeddu

During this interview, both experts speak about questions such as their view on the benefits of large-scale industrial renovation, the tools that are available nowadays to effectively address serial renovation with guaranteed success from the design phase or the benefits of implementing BIM in renovation processes.

[more](#)



BUILD UP Expert Talks: Slavica Robić (REGEA) & Louise Sunderland (Regulatory Assistance Project)

During this interview, the experts answer questions related to reducing the energy consumption of households, and the definition of energy poverty, what the general level of awareness of European households to effectively reduce energy consumption is, and what has been proposed by European institutions to reduce the energy consumption of households.

[more](#)



LIFE call 2022 open: New funding opportunities for the building sector

Good news for all the BUILD UP community! The European Commission has opened the LIFE Clean Energy Transition (CET) Call for Proposals 2022. The deadline to submit your proposal is 16 November 2022.

[more](#)



High school in Romania turned into nearly-zero energy building

One of the largest public schools in Romania has been renovated to become a nearly-zero energy building (NZEB). This has resulted in a 60% reduction of energy consumption and most of consumed energy can be generated on site from solar photovoltaic and thermal panels.

[more](#)



More than 115 million smart buildings predicted by 2026

The number of buildings globally deploying smart building technologies is forecast to reach 115 million by 2026. This represents an increase from 45 million in 2022, and it represents a growth rate of more than 150 per cent and reflects increasing demand for energy efficiency from businesses and residents alike, as energy costs spike, according to a new study from Juniper Research.

[more](#)



Greening buildings: EU Strategic Foresight Report 2022 highlights synergies with digital transition

Greening Buildings with digitalisation is one of the 10 key areas of the EU Strategic Foresight Report 2022, which aims to twin the green and digital transition. There are some key changes that the building sector must face, focused on the ones from demographic trends and urbanisation.

[more](#)



Innovations and key drivers to accelerate serial renovation solutions in Europe

The building sector is the key to achieve emissions reduction through renovation. To this end, solutions are needed to speed the current renovation rates. Industrial prefabrication for renovation comes as a promising solution to achieve this goal and create significant energy and cost savings.

[more](#)



Renovate2Recover: How transformational are the national recovery plans for building renovation?

The July 2021 draft Bulgarian National Recovery and Resilience Plan allocates significant resources for energy efficiency improvements, especially for multifamily residential buildings, and sets clear delivery milestones, however these are not aligned to the national



targets defined in the Bulgaria's Long-Term Renovation Strategy (LTRS)

[more](#)

Deep renovation: Shifting from exception to standard practice in the EU

BPIE has published a new paper, which investigates what deep renovation is, and dives into ways to define it, based on an overview of national examples and existing concepts where key parameters are outlined. Deep renovation is a multidimensional concept and guided by one overarching principle: the need to achieve climate neutrality by 2050. It sets a path for every building to be climate proof.

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Passive House - Detached single family house in München

The simple and compact structure with a grey wooden façade is perfectly tailored to meet the needs of a family. Straight through the hallway you enter the heart of the ground floor, the large, open-plan cooking, dining, and living area, which opens onto the garden via generous windows to the south and west. A platform staircase leads to the upper floor, where there are two equally sized children's bedrooms to the south and the master bedroom to the north.

[more](#)



Villa Capodivacca, Italy

The restoration and energy refurbishment of Villa Capodivacca in Saccolongo, Padua, is among those that can be defined as low impact. The Villa was affected by material degradation especially in north façade and resulted in discomfort indoors. During the intervention, it was necessary to immediately improve the seismic protection of the structure.

[more](#)



Explore

HEART project | Interview with Niccolò Aste from POLIMI

Aste explains the high potential of the HEART toolkit replicability across the EU building stock, given the large number of buildings with the same energy features as the project demonstration buildings. Its innovation will allow the system to compete with others in the market, as it covers all possible aspects of energy renovation, and this was put into a synergistic, holistic package that has the potential to cut up to 90% of a building's energy consumption.

[more](#)



GRETA project

The EU-funded GRETA project will conduct research to develop energy citizenship contracts that support the transition goals within energy communities, and recommendations aimed at improving the policymaking process towards stimulating energy citizenship.



[more](#)

HOUSEFUL project

HOUSEFUL will introduce solutions to become more resource efficient throughout the lifecycle of a building, taking into account an integrated circular approach where energy, materials, waste and water aspects are considered. This approach fosters new forms of co-creation, increasing the collaboration among stakeholders of the housing value chain to develop new circular solutions and services.



[more](#)

EC² project: Energy Citizenship and Energy Communities for a Clean-Energy Transition

The EU-funded EC2 project will develop a psychological conceptualisation to understand what it takes to become an energy citizen and identify legal and socio-economic market factors that can hinder or promote the emergence and engagement of citizens in energy communities.



[more](#)

Learn

BIM4Ren project | Tools for Data Driven Renovation Design

Check the latest webinar from the BIM4Ren project. This session allowed us to learn about tools such as the 3BTool, the Renovation Manager, the Scenario Comparison tool, BIMSolar, and so on. The objective is to help improve the low productivity rate of the European construction sector in the market segment of energy renovation.

[more](#)



BIM4EEB round-table at New European Bauhaus - Tools for digitalisation, inclusion, and affordability in building renovation

The panellists discussed how the digital tools developed by the project can facilitate inclusion, accessibility and affordability during the building renovation process, and also about how the public and private sectors can benefit from the tools.

[more](#)



Solutions4renovation - A TURNKEY solution for single-family and multi-family buildings renovation

This tool offers an integrated home renovation service supporting homeowners with a turnkey solution for information about their home (initial technical and social / behavioural diagnosis), potential works (technical and economical offers), contacts with providers and installers and contracting of works, structuring and provision of financial incentives, monitoring / onsite



Conference - International Conference on Sustainability in Energy and Buildings SEB-22

SEB-22 invites participation and paper submissions across a broad range of sustainability and energy related topics relevant to the main theme of Sustainability in Energy and Buildings, such as "Intelligent buildings", "Sustainable buildings technologies" and "People in intelligent buildings and cities".

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European Sustainable Energy Week: Going green and digital for Europe's energy transition

Sessions organised by the European Commission and energy stakeholders will focus on sustainable energy issues, and debate new policy developments, best practices, and sustainable energy ideas.

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Social media



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