
November 2022

BUILD UP

Newsletter



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Overview articles

Topic of the Month: Boosting demand for skilled workers in the building sector

Every month, BUILD UP highlights publications that are covering a specific topic. The topic of the month for November is 'Boosting demand for skilled workers in the building sector'. Our Editorial Board is eager to receive your discussion papers, news, and articles. Become a contributor now!

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Circularity and low-carbon building materials in construction

While the operational energy consumption in low energy buildings is significantly reduced, the embodied GHG emissions of the building materials used in construction can account for half of the life-cycle carbon footprint of the building.

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Analysis of Building Typologies as A Driver to Identify Optimal Retrofitting - Overview of EU-funded projects

How can the renovation rate be improved? Brussels Leopold neighbourhood is used as a case study to present the definition and analysis of the typologies of existing buildings and their components as a valuable option while improving the impact and efficiency of early design stage retrofitting decisions.

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News

Expert Talks - Maria Founti

"Prefabrication is key to circular construction: it offers significant savings in costs of production of the component, time for the construction on-site and minimisation of the waste that is produced". Professor at the School of Mechanical Engineering of the National Technical University of Athens (Greece), Maria Founti talks about the benefits of using circular prefabricated and modular construction and how prefabrication is improving material recycling and reuse.

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Second call for local energy planners for the Act!onHeat Support Facility

The Act!onHeat Project has opened its second European-wide Call for Applicants to all local energy planners interested in receiving strategic support to establish or improve their Heating & Cooling infrastructure. The Call for Applications is open until 31 December 2022 via EUSurvey.

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4 digital technologies to advance in the circular construction

How can we foster the circularity of construction materials to make them profitable for the complexity of today's industry? How can we improve processes which are so fragmented? Read about four digital technologies which can enhance circularity and processes. Author: Catherine De Wolf (Professor at ETH Zurich).

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Identifying new and innovative strategies to reduce carbon emissions and waste in the construction sector

The current world is defined by technological innovation which has led to population growth. Hence, there is a need for a sustainable transition towards circularity and circular construction. How can the industry engage stakeholders in the construction sector more to cooperate towards this goal?

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The role of circularity and low-carbon materials in building projects

Why is the way we build so important? How is the construction and building industry going to be transformed to meet energy transition targets? According to Giulia Potor, from Partel, by integrating Life Cycle Assessment for construction projects, professionals can optimise whole life carbon, cost, and circularity of design.

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Reducing the lifecycle carbon footprint of buildings while fostering innovation in renovation

The BPIE report "Whole life carbon and industrial renovation: realising the opportunities to reduce the lifecycle carbon footprint of buildings" focuses on opportunities to leverage both the whole-life carbon impact of renovation and industrial prefabricated renovation solutions and provides recommendations for policymakers aiming to create an optimal policy framework to reduce emissions from buildings while fostering innovation in the renovation sector.

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Fully self-sufficient buildings in Männedorf, Switzerland

This case study of residential buildings represents the first residential building in the world with an intelligent and consistent combination of photovoltaics, battery storage, synthetic e-gas/biogas and intelligent energy management (hybrid box). It has received recognition at the Energy & Temperate Climates Prize of the Green Solutions Awards 2020-21.

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Passive House multi-family dwelling in Zaragoza

This certified Passive House multi-family dwelling in Zaragoza (Spain) has been built taking into consideration the occupant's comfort, such as indoor air quality (IAQ) and acoustics, and ecological aspects, such as aerothermal energy connected to clean renewable electricity and not supplied by gas. This allows for savings in fixed costs, taxes, and maintenance.



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Explore

AEGIR project: Digital and physical incremental renovation systems enhancing energetic behaviour and use of resources

AEGIR's main objective is to demonstrate a physical and digital sustainable framework that boosts the uptake of deep retrofitting achieving nearly zero energy buildings.

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FORTESIE project: CBDC-powered Smart Performance contracts for efficient, sustainable, inclusive, energy use

The overall vision of FORTESIE is to design, demonstrate, validate and replicate innovative renovation packages in the building industry with Smart Performance-Based guarantees and financing, aiming at Efficient, Sustainable and Inclusive Energy (ESIE) use to accelerate the Renovation Wave in Europe.



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Digital monitoring of the construction process

The project 'Design and implementation of a digital monitoring system of the Smart Living Lab construction site' aims to collect georeferenced images throughout the construction phase of the future Smart Living Lab building of the EPFL.

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REHOUSE project: Building's renovation packages

The main objective of REHOUSE is to develop and demonstrate 8 renovation packages for holistic improvement of EU's building's efficiency, maximizing RES generation and cost-effectiveness.

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Learn

Webinar - Practical Tools for the Construction Sector in Digital Twin

Organised by the COGITO project, on 4 October 2022, BUILD UP hosted the webinar 'Practical Tools for the Construction Sector in Digital Twin'. The webinar is recommended for anyone interested in Digital Twin and current practical solutions in that area. During this session, we were able to appreciate the learning and progress that this project has achieved and to exchange insights about this topic.

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BUILD UP The European Model for Energy Efficiency in Buildings

Webinar - Find out ICLEI's series on Circular Buildings and Construction

The non-profit organisation ICLEI, Local Governments for Sustainability has launched a webinar series titled 'Circular Buildings and Construction', that showcases how the Circular City Actions Framework can be applied to different sectors at the local level through concrete cases from cities of different world regions. The last webinar of the series was 'Circular Buildings and Construction'.

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Kaleidoscope: Embodied Carbon Design Tool

Kaleidoscope is a tool supporting Life Cycle Assessments (LCAs) at the early design stage. This allows the designers to have a clear view of the embodied carbon impacts of various design options and thereby make the final decision.

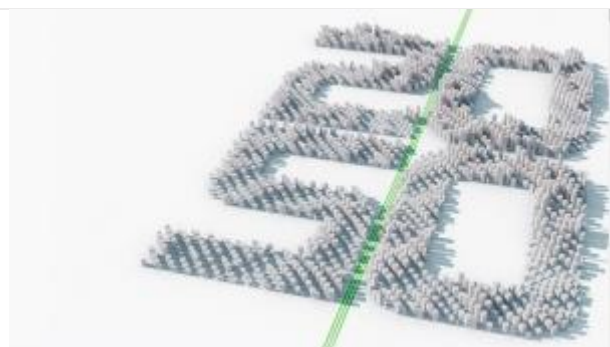
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Path 2050 for a climate neutral Belgium

EnergyVille researchers have drawn data-driven maps based on three different scenarios to integrate energy systems to reach net zero emissions in Belgium by 2050. They have different implications for different sectors (e.g. residential & commercial buildings, industry, power and transport).

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16th Strategic Energy Technology Plan (SET Plan)

The theme of the conference is 'Towards a new SET Plan', marking the need to step up the SET Plan to increase the energy and climate policy ambitions. In the conference there are some interesting sessions that are relevant to buildings, such as "Research & Innovation in a lifecycle of a building".

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REHVA Brussels Summit 2022. Save the Date!

The REHVA Brussels Summit is an excellent professional networking event among REHVA Members, REHVA Supporters and Brussels-based stakeholders working in the fields of buildings, energy efficiency and indoor environment quality.

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PLEA 2022: Will cities survive?

The aim of the PLEA 2022 is to question the whole idea of a city, and the way we inhabit and use them generating the definitive inflexion point that a sustainable city requires. Online sessions will take place on 22 November.

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The Future Envelope – Towards Zero Carbon

The Future Envelope conference aims at providing new points of view on the current state, upcoming challenges, and innovations in the field of building envelope design, manufacturing, installation, operation and dismantling. The broad scope is to ease the path towards nature-compliant, human-centred comfortable and efficient buildings.

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