The BUILD UP Newsletter

March 2024

European Commission

BUILD UP
The European portal for energy efficiency and renewable energy in buildings

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The revolution of the building sector. Construction 4.0: popular content

This newsletter summarises, amongst many other items, the latest and most relevant content published in the BUILD UP portal on February's Topic of the Month: 'The revolution of the building sector: Construction 4.0', specially curated by us to keep you up to date on this key topic. In March, we are featuring content related to 'Sustainable energy skills' in the building sector. If you wish to promote and share your content, including articles, papers, case studies, webinars... get in touch with us now!

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Overview Article – The digital transformation of the built environment and Construction 4.0

Digital technologies represent a huge untapped potential to revolutionise the building and construction industry. Buildings are evolving into intelligent and interconnected structures, adapting to the changing needs of occupants while also optimising energy efficiency. How is Europe addressing this digital shift, and how are building professionals changing the way they work?

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Technical Article – Integrating human-centric design with emerging technologies in construction

The impact of digital technologies on the construction value chain is profound, reshaping traditional practices and workflows. Integrating human-centric design with BIM, IoT, Digital Twins, and additive manufacturing marks a transformative era in construction, enhancing efficiency, sustainability, and adaptability. The article delves into how the fusion of these technologies with human expertise redefines building design, construction, and management, facing challenges in data management and interoperability.

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News

Expert Talk – Fernando Sigchos Jiménez

What are the challenges related to the adoption of digital technologies for SMEs in the construction industry? How are they implementing digital twins and AI? We talk about it with the Secretary General at the European Builders Confederation (EBC).

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Building conversations up with... Pieter Staelens

BUILD UP delves into the topic of digitalisation in the construction sector and its relation to achieving the sustainability and renovation goals of the European Building stock with Pieter Staelens, Policy Officer at DG GROW, Construction Unit.

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3D-printed nanocellulose as a green architectural material

Researchers from Sweden have discovered a 3D-printed nanocellulose and algae which can become part of greener architecture.

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What is behind the increase of digital technologies in the building industry?

The Building Design+Construction magazine explores the factors driving the AEC industry's shift toward digitalisation.

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The role of BUILD UP in exchanging knowledge in energy efficiency and renewable energy in buildings

Relevant voices representing industry and academia talk in this video about how the BUILD UP portal exchanges and fosters knowledge related to energy efficiency and renewable energy in the construction sector.

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Resources & Tools

Publication - Building automation and control systems to meet user needs

A recent paper by Federico Garzia, Stijn Verbeke, Cristian Pozza, and Amaryllis Audenaert, from EURAC Research, Antwerp University and VITO, analyses the benefits of Building Automation and Control Systems in meeting user needs in office buildings.

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Case study - Cross-laminated timber building in Norway

This groundbreaking residential project, designed by Oslotre in Kristiansand, Norway, exemplifies Scandinavia's innovation in mass timber construction.
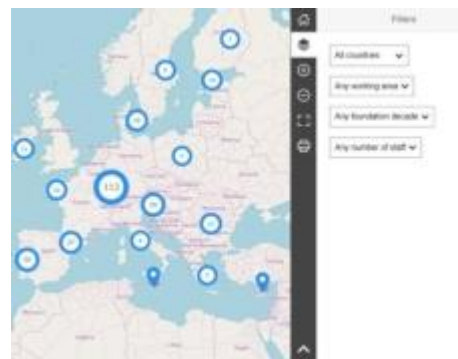
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Tool - Interactive map of local and regional energy agencies

ManagEnergy has developed a map featuring over 300 energy agencies in the EU. Recognised by the revised European Energy Efficiency Directive, these agencies facilitate long-term planning and collaboration, establishing renovation one-stop shops.

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Webinar - Smart solutions to accelerate the digital transformation of buildings

Hosted by BUILD UP, in this webinar project partners from BuildON and SMARTeeSTORY shared their vision on the role of digitalisation in the decarbonisation of buildings.

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Events

LIFE Calls for Proposals 2024

The LIFE Calls for Proposals 2024 are expected to be published on the Funding & tender opportunities portal on 18 April 2024. Virtual information sessions will be held from 23 to 26 April 2024 to guide potential applicants through these LIFE Calls for proposals.

	date	23/04/2024 - 26/04/2024
	Organiser	European Commission, European Climate Infrastructure and Executive Agency (CINEA)

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Decarbonising on a massive scale through the deployment of heat pumps: what are the challenges and levers for speeding up deployment?

BUILD UP is hosting a webinar organised by BEUC (Bureau Européen des Unions de Consommateurs) and Ressorts that will delve into the role of heat pumps in decarbonisation, sharing the insights and experience of two partner projects, CLEAR HP and LIFE STREET HP.

	date	12/03/2024
	Organiser	BEUC (Bureau Européen des Unions de Consommateurs) - Ressorts
	Registration	Register now

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Understanding skills for a sustainable future: skills mapping

This webinar will focus on the role of skills mapping in the decarbonisation of buildings, sharing the insights and experience of four projects: BuildUpSkills Netherlands, Train4Sustain, Arise and BUS-Go Circular.

📅	date	21/03/2024
👤	Organiser	ISSO
✏️	Registration	**Register now**

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