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The BUILD UP Newsletter

December 2023



BUILD UP

The European portal for energy efficiency
and renewable energy in buildings

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Last Topic of the Month of 2023: Smart homes and
smart buildings, changing the way we live

Become a contributor!

Every month, BUILD UP chooses a hot topic concerning energy efficiency and renewable energy in buildings, naming it the 'Topic of the Month' and featuring various types of interesting content associated with it. In December, we are focussing on 'Smart homes and smart buildings: changing the way we live'. Explore our overview article below, and if you have any relevant content—articles, news, case studies, publications, webinars, etc.—feel free to share and become part of our contributor community!

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The state of the art of smart buildings and smart technologies in Europe

Many EU policies, programmes and financial instruments support the shaping of the future of smart buildings to enhance energy efficiency, reduce emissions and energy consumption, and respond to occupants' needs. Check this overview of smart buildings and smart technologies in the EU panorama.

[more](#)

Buildings as energy generators and Plus Energy Buildings

This newsletter summarises, amongst many other items, the latest and most relevant content on November's Topic of the Month: 'Buildings as energy generators and Plus Energy Buildings'. These are especially curated by us to keep you up to date on this exciting topic!

Articles

Overview Article –Buildings as energy generators: EU initiatives and perspectives on Plus Energy Buildings

This article presents the overall framework for the definition of Plus Energy Buildings (PEB) and the latest results from projects in terms of technology solutions, multiple benefits analysis, and policy recommendations.

[more](#)



Technical article – Digitalisation in the built environment: Stimulating the demand for skills

This last article for the Arise series delves into how understanding and achieving the sustainable benefits deriving from digitalisation is a critical step in ensuring we deliver a skills-literate workforce capable of delivering green construction.

[more](#)



Technical article – EXCESS develops replicable solutions for flexible user-centric energy-positive buildings

The EXCESS project develops positive energy building solutions and demonstrates them in four European cities to prove that cost-competitive, positive-energy building solutions can be realised across different European climatic zones.

[more](#)



Technical article – District Energy Efficiency Subscriptions Project supports the degasification of Dutch districts

The DistrictEES project, funded under Horizon2020, implements a district-level renovation strategy in the Netherlands, fostering energy efficiency and sustainable energy investments at the district level to support the Dutch transition to be gas-free by 2050, achieving over 3000 house conversions and reducing CO2 emissions by at least 462 tonnes per year.



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News

Expert Talk – Steinar Grynning



Grynning talks about what the main technologies behind PEBs are and how they contribute to sustainable energy-efficient buildings, besides giving his opinion about the evolution of future PEBs.

[more](#)

Building conversations up with... Maarten De Groot



With 20 years' experience in the energy transition of the built environment, BUILD UP talks with De Groot about Positive Energy Neighbourhoods (PENs), their benefits and how to encourage their development through national and European policies.

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What is at stake in the energy efficiency in buildings and related sectors?



With the backdrop of the EPBD recast, BUILD UP organised an interesting panel discussion with key stakeholders to address and discuss challenges and solutions related to the sector.

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Resources & Tools

Publication – Opportunities of Positive Energy Neighbourhoods (PENs)

Positive Energy Neighbourhoods have a great potential to boost climate neutrality, even though there are still barriers to overcome. Read about them in this publication of BPIE.

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Case studies – Green Building Solutions Awards: Circular Economy

The recently concluded Green Building Solutions Awards, organized by Construction 21 with BUILD UP as a media partner, have just announced their winners. Check the selected finalists in the Circular Economy category.

[more](#)



Webinar – Unlocking the potential of SMEs: A holistic framework to train SME-workforce in Circular Construction

Co-organised by Centre for Energy Efficiency EnEffect and Circle Economy Foundation, BUILD UP hosted the second webinar of a 4 part webinar series aiming to present the BUS-GoCircular project's outcomes to different audiences. Check the video!

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Tool - eensight next-generation of machine learning tool

The eensight web platform contributes to the advancement of automated measurements and verification methods for energy efficiency.

[more](#)



Events

2024 Smart Building Conference

Expert speakers from across the globe will join the programme to discuss how to transition towards net zero by achieving even better energy efficiency in smart buildings.





	date	30/01/2024
	venue	Barcelona
	Organiser	Fira Barcelona
	Registration	More information

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From NZEB to ZEB: the buildings of the next decades for a healthy and sustainable future

The 53rd AiCARR International Conference will present contributions of interest to the Heating, Ventilation and Air Conditioning sector, relating to innovative design approaches, new monitoring and control systems, and new components and systems, with related insights into their impact on energy consumption, comfort (thermal-hygrometric, acoustic, visual, air quality) and on the healthiness of internal environments.



	date	12/03/2024 - 13/03/2024
	venue	Mostra Convegno Expocomfort, Fiera Milano Rho (Milan, Italy)
	Organiser	AiCARR
	Registration	More information

[more](#)

The BUILD UP newsletter is issued by the [European Climate, Infrastructure and Environment Executive Agency \(CINEA\)](#). The content of the newsletter does not necessarily reflect the opinions of the European Union Institutions.

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