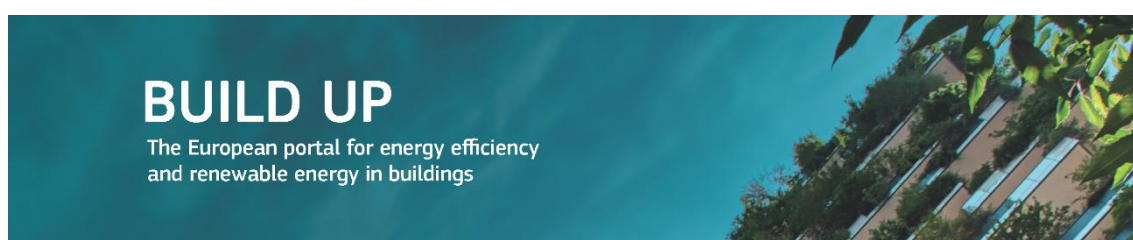


# The BUILD UP Newsletter

February 2024



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## Heat pump solutions for buildings: popular content

This newsletter summarises, amongst many other items, the latest and most relevant content on January's Topic of the Month: 'Heat pump solutions for buildings', especially curated by us to keep you up to date on this key topic. In February, we are featuring content related to 'The revolution of the building sector: Construction 4.0'. If you want to promote and share your content, including articles, papers, case studies, webinars... get in touch now!

[more](#)

Articles

*Overview Article – Decarbonisation of buildings' heating systems with heat pump technologies: an overview of EU policies and projects*

As the European Union strives to improve energy efficiency and reduce carbon emissions, heat pumps have emerged as key players in decarbonising our buildings. These technologies exploit renewable energy sources, offering a cleaner and more sustainable alternative to traditional heating systems. This article provides an overview on EU policies, financial instruments, and EU-funded projects to facilitate the adoption of heat pumps in buildings and to overcome the current barriers.



[more](#)

*Technical development and use-case aspects of thermoacoustic heat pumps for existing houses*

BlueHeart Energy (BHE) is a deep tech start-up and has developed a revolutionary thermoacoustic (TA) heat pump engine. This next generation of heat pump technology provides an alternative for vapour compression techniques and better meets the requirements of existing buildings that are not well met by today's technologies. BHE's TA engine will be supplied business to business to heat pump manufacturers in Europe and beyond.



[more](#)

## News

*Interview with Hans Rhein, Head of Unit (Life Energy and Life Climate), European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission*



Rhein elaborates on the role of BUILD UP in supporting the implementation of the EU's climate and energy framework, and sets out the latest achievements of the portal and what can be expected from BUILD UP in the future.

[more](#)

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*Expert Talk – Jozefien Vanbecelaere*



Head of EU Affairs at the European Heat Pump Association (EHPA), Vanbecelaere delves into the status of heat pump installations in EU buildings and explains how the recast of the EPBD, RED and EED addresses issues around heating systems in buildings.

[more](#)

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*Building conversations up with... Federica Sabbati*



BUILD UP engages in a conversation about heat pumps with the Secretary General of the European Heating Industry, exploring aspects like the EU regulatory framework, benefits for homeowners, and their significance in meeting sustainable targets.

[more](#)

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*What is the future of fossil fuel boilers with the new EPBD?*



Fossil fuel boilers are set to be fully phased out by 2040, with subsidies cut from 2025, as part of the recent political agreement between EU legislators.

[more](#)

*Why are the sales of heat pumps falling?*



EHPA data shows that the sale of heat pumps has shrunk over 2023, putting decarbonisation targets at risk.

[more](#)

*Is your heat pump of the right size?*



A joint study conducted by energy monitoring experts, including Build Test Solutions, Veritherm, and Elmhurst Energy, suggests that around 70% of homes with heat pumps have the wrong size installed.

[more](#)

## Resources & Tools

*Publication: The potential of space heating in buildings to reach EU's climate goals*

Decarbonising space heating in buildings is crucial for reaching greenhouse gas neutrality in the EU by 2050. Electrification is key.

[more](#)



*Case study: Morbihan Habitat – Social housing district renovation with reused materials*

The main objectives of this renovation were to obtain a Nearly Zero renovation label and reuse demolition products and bio-sourced materials.

[more](#)



*Tool: SolarCity Simulator*

The SolarCity is a web-based simulator application to evaluate the generation of electricity using rooftop-mounted solar photovoltaic (PV) systems.

[more](#)



*Webinar: ARISE e-learning platform on BIM and applied energy efficiency tools - A webinar for Trainees*

Hosted by BUILD UP and organised by the Architects Council of Europe (ACE), this webinar aimed to inform the trainees about the ARISE e-learning platform, which provides gamified micro-learning modules on BIM and applied energy efficiency tools.

[more](#)



## Events

*Smart solutions to accelerate the digital transformation of buildings*

BuildON and SMARTeeSTORY are two Horizon Europe sister projects that work on smarter solutions to accelerate the digital transformation of buildings and improve their performance. Join this first webinar to learn more about their objectives and the common barriers they face.



date

13/02/2024



Organiser

Fundación CARTIF, National Technical University of Athens (NTUA), Fondazione ICONS, RINA Consulting SPA, Technical University of Delft

[more](#)

*27th International Passive House Conference*

90 informative lectures to have a great overview of all the latest developments in the Passive House community. Interested? Check the programme for all the details!





date

05/04/2024 - 07/04/2024



venue

Innsbruck, Austria



Organiser

Passivehaus Institut

[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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