

# BUILD UP

Newsletter



Follow us |  |  | 

## In this issue

- Overview articles
- News
- Practices
- Explore
- Learn
- Events
- Social media

### Overview articles

#### **Topic of the month: Circularity in materials and construction processes**

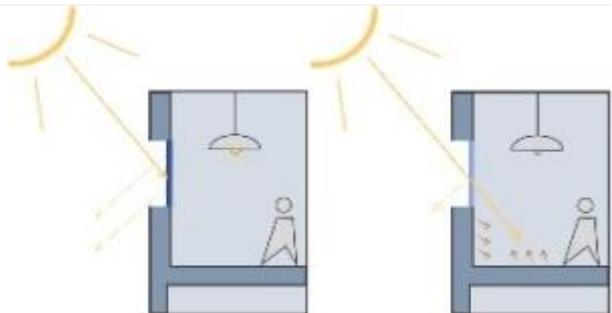
Every month, BUILD UP highlights publications that are covering a specific topic. The topic of the month for October is 'Circularity in materials and construction processes'. Our editorial board is eager to receive your discussion papers, news, and articles now. Become a contributor!



[more](#)

#### **Performance optimisation of an active façade through parametric simulations**

Dynamic shading systems are essential to control solar gains and improve comfort of the building's occupants. Moreover, dynamic facades must be coupled with a control strategy which allows for the control



of shading based on multiple environmental inputs, which can be tested through parametric simulation. Designers can then have an insight into the behaviour of the building and decide on the optimal solution.

[more](#)

### **ENSNARE: Digital toolkit for a more efficient design, construction, and operation of NZEB residential renovations.**

The ENSNARE project is a H2020 project to promote and develop innovative technologies to achieve NZEB renovation by via comprehensive methodology, tools, and technologies that accelerate the current renovation rate in European residential buildings. During ENSNARE, several digital tools were developed and validated that deliver several benefits to a range of stakeholders involved in NZEB renovation and are particularly relevant for the Build Up audience interested and active in Construction 4.0.

[more](#)



## News

### **Meet BUILD UP at the Covenant of Mayors Investment Forum 2022: REGISTRATIONS ARE OPEN!**

BUILD UP will be present with a physical stand in the 2022 Edition of Covenant of Mayors Investment Forum – Energy Efficiency Finance Market Place, one of the most important dates related with energy efficiency financing, that will take place on 18 October in Brussels and has just opened its registration.

[more](#)



### Expert Talks - Karine Laffont-Eloire

During the interview, Karine Laffont-Eloire (Senior Consultant & Associate Partner at Dowel Innovation) answers questions about how architecture and Construction 4.0 relates to building smartness and gives some examples of projects enhancing the European building renovation rates.

[more](#)



### Expert Talks – Sam Ramadori

During the interview, Sam Ramadori (CEO at BrainBox AI) explains how the involvement of Artificial Intelligence (AI) in the improvement of building energy behaviour is making buildings respond to external factors helping to make smarter decisions in energy consumption.

[more](#)



### 10 exemplary 3D printed houses around the world

The evolution of building materials and processes has led to many possibilities of materials to choose, such as hay, tree bark, stone, timber, brick, mortar, or glass and steel. Today, we can create 3D-printed houses by using several technologies and materials which provide different ranges of thermal and acoustic comfort.

[more](#)



### LIFE CET Call 2022 supports “Strategies and training interventions enabling a decarbonised building stock”

As part of the LIFE Clean Energy Transition call 2022, a topic supports the rebooting of the BUILD UP Skills initiative at the national level as well as upskilling and reskilling of building professionals at all levels of the



value chain. The deadline is 16th November!

[more](#)

### **LIFE CET Call 2022 supports collective purchase and procurement actions for heat pumps**

As part of the REPowerEU plan to phase out EU dependence on fossil fuel imports, the European Commission has set the goal of reaching 10 million heat pumps installed in the next five years across the EU. Deadline: 16th November 2022.

[more](#)



## Practices

### **Ten new policy roadmaps for decarbonised buildings unveiled**

Ten European Green Building Councils have developed national and regional decarbonisation roadmaps to implement the European Green Deal. Those roadmaps tackle the whole-life environmental impacts of the building and construction sector.

[more](#)



### **EU Buildings Climate Tracker: A methodology for the decarbonisation indicators of buildings**

The EU Buildings Climate Tracker is a benchmark and assessment tool checking on the status of the EU building stock and its progress towards climate neutrality by 2050. The paper gives more details regarding the methodology and results.

[more](#)



### **Efficiency House Plus Compliant Extension of Primary School**

Due to increasing pupil numbers and structural changes, the Municipality of Giebelstadt in Germany decided to add an extension building to the existing main building of the Giebelstadt Primary School. The new building provides space for the after-school programme and was built compliant with the Efficiency House Plus standard.

[more](#)



### **Insulation, smart LED lighting systems, geothermal heat and recycled materials: how to transform a leisure center from energy rating of E to a Nearly-Zero Energy Building**

A major retrofit intervention has allowed for the transformation of a 1960 leisure centre building into an A-rated building with Nearly-Zero Energy Building (NZEB) status. Innovative energy systems and materials have improved efficiency, lowered costs, and reduced the building's footprint.

[more](#)



Explore

### **3DBAG project: 3D Modelling in higher dimensions**

The ERC project Urban Modelling in higher dimensions (UMnD) has developed a solution for detailed 3D Building models Automatically Generated for very large areas (3DBAG). This prototype was applied to generate detailed 3D models for all 10 million buildings in The Netherlands.

[more](#)



### **ACCORD project: Digitalising processes using BIM**

ACCORD's objective is to digitalise permitting and compliance processes using BIM and other data sources to improve the productivity and quality of design and construction processes, support the design of climate-neutral buildings, and advance a sustainable built environment in line with the EU Green Deal and new European Bauhaus initiative.

[more](#)



### **Digital tracking installation to generate photogrammetric models, construction time lapse and point clouds during the building phase**

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.

[more](#)



### **SYNERGIES project: Transitioning through Energy Data**

SYNERGIES introduces a reference Energy Data Space Implementation that will attempt to unleash the data-driven innovation and sharing potential across the energy data value chain by leveraging on the data and intelligence coming from diverse energy actors and coupled sectors (buildings, mobility) and effectively making them reachable and widely accessible.

[more](#)



Learn

### **Webinar - Making building performance assessment transparent & holistic**

On 20 September, and as part of European Sustainable Energy Week 2022 extended programme, EPB Centre, ECI, BPIE and ECTP brought together key actors to make the invisible visible and debate about the importance of choices made in the national building performance assessment methods and their prerequisite role and high impact in completely decarbonising in practice the EU's building stock by 2050.

[more](#)



### **Webinar - Leveraging digitalisation and construction skills towards 2030 energy goals**

Hosted by the BUILD UP portal, this European Sustainable Energy Week session proposed by ACE-CAE will revolve around the evaluation of the construction market and identified needs for digitalisation and enhanced skills to achieve 2030 energy efficiency goals, from the experience of 9 EU founded projects.

[more](#)



### **Replication toolkit for small-medium European cities with zero-carbon vision**

SmartEnKIT is the official replication toolkit of the SmartEnCity project. It collects all main project learnings, methods, and outcomes to share insights and inspire other small and medium-sized European cities with a zero-carbon vision along their journeys.

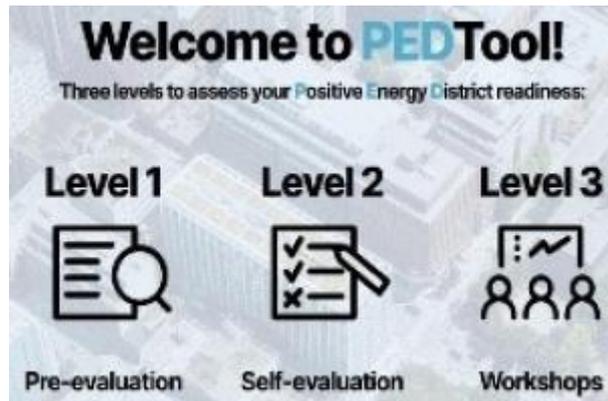
[more](#)



### The PEDTool for cities to assess their readiness to develop a Positive Energy District

The MAKING-CITY PED-readiness indicator tool (PEDTool) allows cities to quickly and simply assess whether they are ready to develop a Positive Energy District (PED) which helps the city to become climate neutral.

[more](#)



## Events

### SBE22 Delft: Preparing for the European Renovation Wave

The SBE Regional Conference Innovations for the Urban Energy Transition brings professionals and researchers together to discuss the implementation of leading-edge solutions to some of our greatest societal challenges around the energy transition in the building sector.

[more](#)



### [Conference] European Energy Efficiency Day

This first edition will be hosted online on 13 October. The aim is to create a new, unique platform to debate, exchange ideas, transfer knowledge and explore cost efficient and socially fair decarbonisation paths.

[more](#)



### Covenant of Mayors Investment Forum 2022

This edition of the Covenant of Mayors Investment Forum will include plenary sessions with high-level representatives from the European Commission, cities, and investment community. Many projects will be present.



[more](#)

### **|Conference| 17th Advanced Building Skins Conference & Expo**

17th Advanced Building Skins Conference & Expo is the international event on innovative building envelopes for architects, engineers, scientists, and the construction industry. The Advanced Building Skins Conference & Expo has been running for over 15 years and is the premier international event for innovative building envelopes.



[more](#)

## Social media



**BUILD UP**  
@BuildUpEU  
The European platform for energy efficiency in buildings. #BuildUp #EUEFF #EUEC  
An initiative of the EC, CINEA  
User since: buildup.eu/buildup-service  
© Europe. 🌐 buildup.eu. 📅 joined Mar 2012

### **Build Up on Twitter**

Follow us on Twitter!

[more](#)



### **Build Up on LinkedIn**

Follow us on LinkedIn!

[more](#)

### About this e-mail

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 institutions of the European Union.

Visit the BUILD UP portal at: <http://buildup.eu/>

To subscribe and unsubscribe to the newsletter, please go to [your profile](#).

© European Union, 2022. Reproduction is authorised provided the source is acknowledged.

The European Commission is committed to personal data protection. Any personal data is processed in line with the Regulation (EU) 2018/1725. Please read the [privacy statement](#)