
May 2022

BUILD UP

Newsletter



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Overview articles

Topic of the Month: Reducing energy consumption of households

Every month, BUILD UP picks up publications on a certain topic. For May, Topic of the Month is 'Reducing energy consumption of households'. Our editorial board is eager to receive your discussion papers, news and articles on this subject.

[more](#)



Smart buildings and smart grids: links and latest trends

What is the correlation between smart grids and smart buildings? How do we measure smartness? This article sheds light on those questions and showcases some innovative projects working to unlock the potential of smart buildings and smart grids towards decarbonisation.

[more](#)



What is the human impact on building performance?

Advanced occupant behaviour models provide valuable insight into Building Performance Simulation (BPS) users. They can evaluate the design's degree of flexibility and ability to adapt to changes in occupancy and Occupant Behaviour (OB), as well as facilitate the realisation of net-zero and low energy buildings that enhance the wellbeing of occupants.

[more](#)



News

SHAPE-EU: Shaping up the Affordable Housing Initiative

Since March 2022, and for a period of 24 months, 10 partners have joined efforts to shape the Affordable Housing Initiative 100 lighthouse projects. SHAPE-EU aims to be the point of reference for a socially-inclusive Renovation Wave and New European Bauhaus by creating blueprints for a fair energy transition with affordability and liveability at its heart.



[more](#)

Act!onHeat project launches its first call for applications

The Act!onHeat Support Facility project accepts applications from local and regional governments, energy agencies, and city planners who wish to receive strategical support to establish or improve their Heating and Cooling infrastructure. The project aims to boost the optimisation of thermal systems by implementing an accelerated number of district H&C projects across Europe.



[more](#)

Actions to improve indoor air quality in facilities

Although invisible, indoor air quality (IAQ) has worsened since March 2020 for everyone who works, lives, or plays in a facility, due to the global Covid-19 pandemic. Facilities professionals and fellow building industry stakeholders have ramped up actions and awareness related to the state of the IAQ inside their facilities.



[more](#)

Students gear up for this year's Solar Decathlon

In a world that faces climate change, Solar Decathlon is a collegiate competition that has inspired thousands of students worldwide. For the 21/22 edition, the competition took a novel approach, centring around the value-added renovation, transformation or



reuse of existing buildings for densifying cities.

[more](#)

Practices

Securing high quality air with ventilation design principles

One of the most important problems for indoor air quality is tackled through the principles of ventilation design. Nordic Ventilation Group has developed some principles based on the results of an EU project 'HealthVent'. These principles secure high quality air delivered to spaces by ventilation systems in order to maintain good and healthy indoor air quality in non-industrial environments with human occupancy, such as public buildings and dwellings. This article is part of REHVA's Journal 02/2022.



[more](#)

A life-cycle perspective on the building sector- Good practice in Europe

This report, produced by BPIE, provides concrete examples of how Member States have improved circularity and reduced emissions in several phases of a building's life cycle, as well as examples of good practice from the construction industry.



[more](#)

Calculating energy performance using EPB standards

This case study demonstrates the complete calculation of the energy performance of an office building and the related technical systems using the set of (CEN and ISO) EPB standards. The objective is to demonstrate that the connections between modules work so that it is possible to perform a complete energy performance calculation with the set of EPB standards.

[more](#)



Historic building in France become headquarters for regional natural park

The Maison du Parc in Provence, France has undergone extensive renovation to create new headquarters for the regional natural park within the old bourgeois house. The project was carried out within the framework of the BDM (Mediterranean Sustainable Buildings) approach "Energy Tertiary Building: Thermal Regulation Low Consumption Building Renovation" concerning heating, cooling, ventilation, domestic hot water and lighting.

[more](#)



Explore

OPTISHELL project for zero energy buildings

Architectural design optimisation (ADO) can prove useful when designing zero energy buildings. However, the impact of ADO remains rather restricted. The EU-funded OPTIshell project will fit ADO with an innovative optimisation algorithm based on swarm intelligence (SI) suitable for multi-objective constrained optimisation problems CMOPs.

[more](#)



INCORPORATEE project will massively renovate buildings in Austria

The IncorporatEE project kicked started in March 2022 with the aim of triggering EUR 60 million of total investments in major building renovations, improvement of building services and installation of renewable energy sources in public buildings in the city of Salzburg and Villach. Energy-related measures would represent EUR 32 million of the total investment and would contribute to improve energy efficiency by 55% and to reduce CO2 emissions by 65%.

[more](#)



COOLTORISE project to tackle summer's energy poverty

Energy poverty has traditionally been defined by wintertime heating, but it is just as important during the summer months. Up to 19% of households in the EU reported being too hot during the summer. COOLTORISE project will establish a framework on summer energy poverty to define common



solutions and will pilot measures to reduce the impact of heatwaves in low efficient households.

[more](#)

OPTAGON project revolutionises refrigeration

Meeting heating and cooling needs in residential buildings and industrial applications results in a significant contribution to greenhouse gas emissions. The EU-funded OPTAGON project explores a revolutionary optical approach to refrigeration based on solar cell materials and LEDs.

[more](#)



Learn

Webinar | RenOnBill Final conference: implementing on-bill schemes for upscaling energy renovation in the EU

The RenOnBill final conference, which took place on 5th April, closed three years of achievement and results in the field of innovative financing schemes for energy renovation of residential buildings. The programme tells the story of this H2020 research and innovation project, highlighting main results and preparing the floor for the exploitation of the outputs, with external guests sharing their views and experience.

[more](#)



EVENT

RenOnBill Final conference: towards the future of on-bill and other innovative financing schemes for energy renovation of residential buildings

SCORES Project: The recording of the Policy Workshop

The SCORES project aims to demonstrate in the field the integration, optimization and operation of a building energy system including new technologies. Partners in the project organised a Policy Workshop presenting lessons learned from the project and discussing perspectives concerning the regulation in the building sector as well the profitability of local energy storage systems. The scores project aims to optimize self-consumption of renewable energy and to defer investments in the energy grid.

[more](#)



QAES project - Internal air quality self-assessment tool

This tool has been developed within the QAES project ('Air Quality in School Buildings'). The purpose of the tool is to allow the school manager to calculate the probable CO2 concentration in the classroom based on some key parameters (internal and external temperature, number of pupils, number of opened windows, how and for how long) and to receive suggestions on how to improve the management of natural ventilation.

[more](#)



[Conference] 6th European ETICS Forum 2022

Experts from across Europe will speak and discuss how External Thermal Insulation Composite Systems (ETICS) will contribute to the ambitious aims of the European Green Deal, the Renovation Wave and the Fit-for-55 package. These systems offer a huge potential leverage for contributing to a net carbon neutral society.

[more](#)



EU DESIGN DAYS 2022

Design Days break borders between different sectors. Several speeches, breakout sessions and networking opportunities offer the chance to share experiences, elaborate on challenges and learn about each other's success stories. The EU Design Days format organically creates a unique platform where researchers and designers come together with stakeholders, policymakers, and SMEs from regions all over Europe.

[more](#)



Solar Decathlon Europe 21/22

The SDE 21/22 hosts the Solar Decathlon Europe for the first time in Germany. Eighteen teams from eleven countries have qualified for the urban decathlon for sustainable building and living taking place in Wuppertal. They will not only develop innovative housing ideas, but will actually realise their designs, which will be fully-functional one- or two-storey residential houses.



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Social media



Build Up on Twitter

SAVE THE DATE | #Webinar on Smart Buildings: Meet EU Innovators - Episode 3 / 28 April 12.00H / A number of EU funded projects is developing solutions that will push further the #smartreadiness of #buildings. Join and meet 8 of them!

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SAVE THE DATE | #Webinar on Smart Buildings: Meet EU Innovators - Episode 3 / 28 April 12.00H / A number of EU funded projects is currently developing and testing solutions that will push further the #smartreadiness of #buildings and their interactions with the #environment / Join, meet 8 of them and discuss their key innovations!

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