

FOR IMMEDIATE RELEASE

## **Loxone's Building Management System Sets New Standards in Precision, Adaptability, and Energy Efficiency at Energy House 2.0**

**University of Salford's groundbreaking Energy House 2.0 project recognises Loxone for superior performance in energy efficiency and comfort control, showcasing unmatched benefits for sustainable buildings.**

Reading, UK – Loxone's building automation solution has emerged as a leader in smart energy management at the cutting-edge of the Energy House 2.0 research facility, delivering superior precision, adaptability, and energy efficiency. Tested alongside other heating and control systems, Loxone's system excelled in maintaining comfortable indoor temperatures, achieving 21°C in typical winter conditions and 20°C in extreme cold (-5°C) - all while optimising energy use and reducing waste.

Energy House 2.0 has two climatic chambers and is one of the world's most advanced building performance test facilities. Located at the University of Salford in Manchester, it provides a rigorous testing environment. These chambers simulate typical UK winter temperatures (5°C) and severe cold spells (-5°C), allowing various construction solutions and building technologies to be tested for efficiency and resilience. The University has been releasing its findings in various reports since the research began in January 2023, with the most recent report "Energy House 2.0 Study on Future Homes Standard Heating Systems" showing that Loxone's BMS not only maintained the target indoor temperatures across different rooms and zones but did so with remarkable energy efficiency, distinguishing itself from other systems.

"We're thrilled to see Loxone's system perform at such a high level in one of the most realistic testing environments available," said Tyron Cosway, Branch Manager Loxone UK. "Our mission has always been to set new standards in building automation, and the Energy House 2.0 results underline our commitment to creating intelligent systems that minimise energy waste while delivering unparalleled comfort. The findings of this report further emphasise Loxone as a proven option for developers and home builders alike needing to adapt to the Future Homes Standard expected to come into effect in 2025."

## **Seamless Integration for Maximum Efficiency**

In the climatic chamber Barratt Developments and Saint-Gobain partnered to build a 3-bed detached house, dubbed eHome2. In this house, Loxone's automation system seamlessly integrated with both the Thermaskirt heating panels and the Air Source Heat Pump (ASHP), enabling tailored temperature control with high efficiency. By optimising the operation of these systems through advanced automation and energy management, Loxone achieved significant energy savings while maintaining desired comfort levels.

In comparison to another well-known heating controls brand which was also trialled as part of Energy House 2.0, Loxone excelled in maintaining consistent indoor temperatures even under dynamic heating conditions. By seamlessly adapting to both user preferences and environmental changes, Loxone ensures precise climate control across all zones, including those with underfloor heating. This responsiveness not only enhances comfort but also delivers significant energy savings, demonstrating our commitment to smarter, more efficient building management.

## **A Game-Changer for Sustainable Building Management**

The Energy House 2.0 findings establish Loxone as a premier choice across the self-build, house builder, and developer sector committed to sustainability without compromising on comfort. By intelligently managing heat distribution and minimising energy use, Loxone's automation solution addresses the need for environmentally friendly, cost-effective building management.

Loxone's achievements at Energy House 2.0 underscore its role as an innovative leader in sustainable building automation. With its proven ability to integrate seamlessly with diverse energy systems and maintain precise, efficient control, the Loxone BMS stands out as the definitive choice for those looking to build or retrofit for a greener future.

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The collaboration - From Left to right: Eion Reynolds (Senior Site Manager, Barratt Developments), Professor Richard Fitton (Technical Lead for Energy House 2.0, University of Salford), Zach Meek (Automation Engineer, Zmart Hohm), Daniel Shea (Assistant Site Manager, Barratt Developments), Tom Cox (Technical & Developments Director, Saint-Gobain Offsite Solutions UK & I), Joe Lewis (Offsite construction consultant and director, Optima offsite Ltd), Alex Baines (Interior Solutions, Saint-Gobain) and Oliver Novakovic (Technical & Innovations Director, Barratt Developments).



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Showing the power of The University of Salford's Energy House 2.0 climatic chamber. That puts eHome2 and its technology to the test.

## **About Loxone**

The Loxone Group from, Austria, is a pioneer in the field of intelligent automation solutions. As a specialist, Loxone enables the simple control and intelligent automation of projects of all kinds. Whether it's your own home, hotel, office or commercial property - Loxone makes life and work easier in every situation. About 300,000 projects in more than 100 countries have already been realised by professional Partners worldwide. Authorised Loxone Partners appreciate the high innovative power of Loxone, the free software in combination with the ease-of-install of the products as well as the numerous, open interfaces that can be controlled by the central Miniserver. This is the heart of every Loxone project and the ultimate tool for the intelligent automation of smart homes, commercial properties and special applications. The Miniserver was specially developed for the professional electrician. As the "brain", this central control unit handles most of the tasks of building and home automation in terms of security, comfort and energy efficiency itself. The Loxone Group has more than 1000 employees at 45 locations worldwide. The Loxone Campus in Austria, the epicentre of European building automation and at the same time the headquarter of Loxone - a unique intelligent building ensemble consisting of a hotel, office, restaurant, spa, conference and event space, logistics centre, and training wing.

## **About Zmart Hohm (Loxone Gold Installation Partner)**

Zmart Hohm is a UK-based leader in smart home and commercial automation, dedicated to delivering high-quality, easy-to-use systems that simplify daily life. Founded by Zach Meek in 2019, the company combines a deep commitment to innovation with a personal touch, ensuring each project is tailored to individual needs. As a proud Loxone Gold Partner, Zmart Hohm leverages award-winning technology to create reliable, future-proof solutions for homes, offices, restaurants, gyms, and more. By working closely with electrical contractors, Zmart Hohm provides a seamless design, supply, and commissioning service, ensuring every installation meets the highest standards of convenience and functionality.

## **About Saint-Gobain Off-site Solutions UK&I**

Saint-Gobain designs, manufactures and distributes materials and solutions for the construction, mobility, healthcare and other industrial application markets. Developed through a continuous innovation process, they can be found everywhere in our living

places and daily life, providing wellbeing, performance and safety, while addressing the challenges of sustainable construction, resource efficiency and the fight against climate change. This strategy of responsible growth is guided by the Saint-Gobain purpose, “MAKING THE WORLD A BETTER HOME”, which responds to the shared ambition of all the women and men in the Group to act every day to make the world a more beautiful and sustainable place to live in. €44.1 billion in sales in 2021 More than 167, 000 employees, located in 76 countries Committed to achieving Carbon Neutrality by 2050 For more details on Saint-Gobain, visit [www.saint-gobain.com](http://www.saint-gobain.com) and follow us on Twitter @saintgobain

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**Note to Editor:**

Energy House 2.0 Study on Future Homes Standard Heating Systems:  
<https://salford-repository.worktribe.com/output/3397480/energy-house-20-study-on-future-homes-standard-heating-systems>