

Most Innovative Sustainable Construction Technology Company 2026 – Italy

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Inventor of the Bio-Brick and the Bio-Panel, BioBuildingBlock is an innovative startup led by a strong vision of a greener future. The company's products have been developed to address some of the most pressing challenges in modern construction, including energy efficiency, fire safety, indoor air quality, and environmental impact. We spoke with Marco Citro, the visionary Founder and CEO of BioBuildingBlock, as his company is named in the Construction and Engineering Awards 2026.



Based in Baronissi, Italy, BioBuildingBlock is an innovative green-tech company focusing on the development of patented construction technologies that combine environmental responsibility, energy efficiency, and occupant wellbeing. The company was founded in 2020 by Marco Citro, born from a mission to transform the construction industry through sustainable, circular, and high-performance building solutions, showing DNA values of Sustainability and Innovation

BioBuildingBlock serves a diverse clientele, consisting of construction companies, engineering firms, architects, developers, and public authorities. Though these clients span various sectors, they are united in their shared search for innovative solutions for sustainable buildings, energy retrofits, modular construction, and low-carbon developments.

Within the construction and engineering sector, BioBuildingBlock offers innovative building systems and bio-based construction products that are designed to improve energy performance, indoor comfort, fire safety, acoustic insulation, seismic resilience, and environmental responsibility. Beyond products, the company works closely with designers, engineers, contractors, research centres, and institutional partners to promote sustainable construction practices and accelerate the transition toward healthier, more efficient, and environmentally responsible buildings.

BioBuildingBlock's portfolio includes the patented Bio-Brick structural system and the Bio-Panel insulation solution, both developed using renewable and recycled materials. These technologies are suitable for residential, commercial, public, hospitality, and modular construction projects, supporting both new-build developments and renovation initiatives, each bringing their own unique characteristics to a project.

The Bio-Brick is a modular construction material that combines the strength of traditional bricks with the environmental benefits of bio-masonry. Unlike traditional systems requiring panels fixed with brackets, Bio-Bricks are quickly assembled using precise joints. This allows the creation of reinforced wood walls with high thermal and acoustic installation, supported by natural materials such as wood chips, cellulose, and wool.

The Bio-Panel is a natural, non-flammable insulation solution made from recycled materials, wood, paper, cardboard, and natural protein blend. The product is made without synthetic glues, promoting wall transpiration and improving indoor air quality by eliminating the emission of volatile organic compounds. The proteins used give the Bio-Panel high fire resistance of up to 2000°C, as well as excellent thermal and acoustic insulation performance.

"We do not simply offer building products; we develop innovative construction technologies designed to address some of the industry's most critical challenges," Marco told us, "including carbon reduction, energy efficiency, circular economy, indoor environmental quality, and resource conservation. Our solutions are the result of continuous research, patented technologies, scientific validation, and close collaboration with universities and research institutions."

BioBuildingBlock has recently began collaborating with public institutions, engineering professionals, and private developers who are interested in adopting its technologies within energy retrofit and sustainable construction projects. These partnerships have been instrumental in helping the team move from innovation to real-world implementation, representing one of its most rewarding achievements yet.

At present, the Italian construction sector is experiencing a major transition that has been driven by sustainability, energy efficiency, and decarbonisation goals. New European and national regulations are increasing demand for environmentally responsible building materials and low-carbon construction solutions. At the same time, the market faces challenges such as rising material and energy costs. This has created stronger demand for innovative technologies that can improve building performance, reduce environmental impact, and accelerate construction processes, and BioBuildingBlock is preparing to lead the charge.

"In the case of BioBuildingBlock," said Marco, "these changes represent a significant opportunity to support the building industry's shift towards a more sustainable, efficient, and circular future with our product."

The remainder of 2026 looks incredibly promising for BioBuildingBlock. The company is preparing to launch several construction projects, including residential, commercial, and renovation developments that will showcase its innovative and sustainable building technologies in real-world applications. At the same time, its team will continue to strengthen its research activities and strategic partnerships to support future growth and market expansion.

As BioBuildingBlock is named Italy's Most Innovative Sustainable Construction Technology Company 2026, Marco shared, "For us, the greatest success is not only having developed an innovative product, but having demonstrated that sustainable construction can be technically advanced, economically viable, and scalable for the future of the built environment."

To learn more about these innovative solutions, check out BioBuildingBlock's portfolio now.

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