

An integrated eco-housing solution offered by a Romanian SME

The SME is providing a sustainable residential housing concept encompassing innovative solutions in building design, materials, HVAC and IoT applications. Permanent monitoring and management of the building's health and energy use, tracking the impact of inhabitants' behaviour on running costs in a way that is intuitive and simple to understand for the end customer.



More precisely, the solution offers:

1. Unique design that stands out from the crowd – the houses form an artificial hill covered with vegetation and have big glazed surfaces facing the south
2. Efficient use of resources and the energy efficient features that are the result of using local natural materials and sustainable building technologies
3. A mix of materials and technology that produce good energy efficiency through mostly passive effects. This translates to a high rate of return for an investor and the customer, which is not usually the case for expensive, energy efficient, technology (such as heat pumps, PV solar panels, energy storage solutions, etc)

The end-to-end solution is a result of 4 years of R&D, repeated product iterations and customer feedback and has been already embraced by the local market. The SME worked with early adopters and has received valuable feedback related to the increasing quality of living offered by the end product.

The proposed concept is highly versatile due to its modular design approach. As such, the concept can be adapted to individual and collective housing projects with different price points, different locations, climate, etc. The solution provided is compatible with both single and multi-family housing.



The services provided are going from design and conception (including calculation and choice of building materials), to assistance during the construction phase and follow up of the project.

The SME is searching for partners on the European market – prescribers (engineering offices, architects) and project owners (real estate and social landlords, building companies) involved in sustainable construction projects to close commercial agreements with technical assistance.