



**BIO** insulation materials for **E**nhancing the **E**nergy performance of **B**uildings



**BIO4EEB** solutions and products aim at uplifting the generic bio-based material use and qualifying their application at a circular economy approach for creating a much greener EU building industry.



Co-funded by  
the European Union

## **BIO4EEB NEWSLETTER**

### **DECEMBER 2023 ISSUE**

Dear Reader,

We'd like to welcome you to the first issue of our newsletter for the month of December. Buildings are responsible for about 40% of energy consumption and 36% of CO<sub>2</sub> emissions in Europe. Deep Renovation of existing old buildings has the potential to lead to significant energy savings and a tremendous carbon footprint reduction. The current EU climate targets open the opportunity for exponential growth in the building thermal insulation materials market owing to the increasing number of new residential buildings and deep renovation needs. The European building insulation market is forecasted to register a growth

rate of over 3% in terms of revenue until 2028. One of the major changes that is crucial for the industry with regards to sustainability, would be wider application of bio-based materials.

**BIO4EEB**, kicked off at the beginning of 2023 and aims at closing the gap of insulation material shortage caused by the regular growing demand. **BIO4EEB** is targeting to boost the usage of available bio-based qualified materials as alternative solutions. Within the project, a portfolio of non-hazardous, bio-based insulation materials is being developed, in the form of Posidonia panels and fibers, complex polyelectrolytes, PLA and biopolyurethane, bio-based windows and finally a pre-fabricated façade element which aggregates these different materials. Indeed, **BIO4EEB** focuses on a wide spectrum of solutions which are going to be adapted to various building conditions. These solutions will be applied in 5 real demo-case sites and 3 virtual demo-case sites, all strategically chosen in order to cover a large set of renovation scenarios for different European climates.

The project aims at a large replicability of the new solutions. This is the reason why the project will develop renovation packages and conduct replicability studies to facilitate their integration on the largest scale possible. Addressing several kinds of buildings with different characteristics, the renovation packages will ensure easy and swift implementation, capacitated by the pre-fabricated elements. New business models utilizing the complete economic value chain, would open the market for **BIO4EEB** products. The efficiency and effectiveness is quite important to match with market demands and establish a unique selling proposition including a 7 years RoI!

This newsletter will disseminate information related to the **BIO4EEB** project and partnership, highlights and latest activities. In order to stay updated, you are kindly invited to follow our social media accounts:



Sincerely,

## THE CONSORTIUM

**BIO4EEB** brings into collaboration diverse expertise, engaging a well-balanced multidisciplinary consortium consisting of partners from 10 European countries as well as one Latin American partner. Research organizations, universities, large companies and small and medium size enterprises are collaborating in **BIO4EEB** and represent a broad range of sectors such as building physics, building Technology, architecture, computer Science, economics, social science and Materials.



## LATEST NEWS

The first round of **BIO4EEB** local open events is taking place at the project's 5 demo-site host countries. These series of events are held in local languages and would allow all target groups and especially the general public to concretely get informed about the **BIO4EEB** project.

### Webinar on Czech Demo-site

**Demonstrační projekt Břežany II**  
 28. listopadu 2023 | Čas konání webinaru: 14:00 - 15:00

Využití materiálů biologického původu ke snížení energetické náročnosti rodinného domu  
 Ing. Radka Vimmrová - moderátor  
 Ing. Alena Vimmrová - speaker 1  
 Ing. Tomáš Vimmr - speaker 2

28 Nov. 2023 - Virtual



20 Nov. 2023 - Vilnius, Lithuania

### Seminar for the chairman and administrators of communities of residents of Multifamily Buildings



31 Aug. 2023 - Bucaramanga, Colombia

### BIO4EEB at 10th Foro Constructor

**BIO4EEB present at**



EBC Annual Congress 2023

# EBC Congress

## EBC Annual Conference

Sustainability in construction, the current and potential role of construction SMEs & crafts



4 Jul. 2023 - *The Hague, Netherlands*



## Circular and bio-based building solutions workshop at Sustainable Places 2023



16 Jun. 2023 - *Madrid, Spain*



## BIO4EEB at Camacol Verde Congress

11 May 2023 - *Pereira, Colombia*

## MEET THE PARTNERS

In every issues of **BIO4EEB** newsletters we introduce two project's partners. This time we start with 3L and Solintel:



3L Architects and Industrial Designers was founded in 1989. The vision of the company's founding members was to establish an architectural firm that is driven by a holistic approach to buildings and processes. Instead of just design-oriented services, 3L provides services that include integrative solutions that consists of design, technology, ecology and economy. In **BIO4EEB**, 3L will ensure the smooth running of the project including communication between the consortium and the Commission, so that all knowledge is created, managed and disseminated in a coordinated and coherent manner and that all management activities, financial and legal aspects and other issues are managed to a high standard.



SOLINTEL is a Spanish SME with more than two decades of experience in construction and energy sectors developing business in the interconnected building-energy value chain. Solintel combines engineering and consultancy services with their own building and energy projects acting as investor and developer. The company focuses in three main areas: Engineering services, Real states & renovations and Research & development. In **BIO4EEB**, Technical

Coordination (TC) will be performed by Dr. Dery Torres representing SOLINTEL. The TC works closely with the WP leaders coordinating the innovation activities, risks evaluations and periodical technical reports. SOLINTEL will also contribute in exploring and developing the innovative business models and market analysis that will effectively support the wide scale diffusion and replication of the project retrofit solutions.

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