

# CALL FOR PROPOSALS 2025

## TERMS AND CONDITIONS

### 1. PRESENTATION

**Sustainable Building Congress** of the trade fair Construmat 2025 is an open space for all players in the construction ecosystem (*architects, engineers, builders, developers, installers, fitters, end customers, solutions manufacturers*) to have the opportunity to present project proposals and innovative content.

This edition of the **Sustainable Building Congress** presents key projects and players in the field of sustainability, with six specific themes and structured programme throughout the three days of the event.

### 2. THEMES

Sustainable Building Congress 2025 will address the following themes:

1. **Low carbon & Net Zero Buildings:** Buildings designed to minimise carbon emissions and achieve a net zero energy balance, producing as much energy as they consume annually through the use of renewable energy and efficient technologies.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Passive design strategies: Use of natural light, cross ventilation, building orientation.
- Renewable energy technologies: Solar panels, wind turbines, geothermal systems.
- Low carbon emission materials: Use of recycled materials, sustainable timber, low carbon concrete.
- Certifications and standards: LEED, BREEAM, Passive House, etc.

- Energy storage systems: Batteries, thermal storage.

**2. Biohabitability and health:** An architectural approach that focuses on creating healthy living environments, using non-toxic materials, optimising indoor air quality, natural lighting and thermal comfort to improve the well-being of the occupants.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Indoor air quality: Ventilation systems, air filtration, non-toxic materials
- Thermal comfort: Insulation, humidity control, efficient heating and cooling systems.
- Natural and artificial lighting: Window design, circadian light, LED lighting technologies.
- Acoustics: Noise reduction, absorbent materials, acoustic design.
- Green spaces and biophilia: Plant integration, vertical gardens, outdoor spaces.
- Accessibility and ergonomics: Universal design, easy mobility, ergonomic furniture.

**3. Social housing:** These residential projects are designed to provide affordable, quality housing for low-income individuals, promoting social equity, inclusion and community cohesion.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Innovative construction: Prefabricated methods, modular construction, fast-track building techniques.

- Financing models: Grants, public-private partnerships, micro-finance.
  - Participatory design: Engaging the community in design and planning.
  - Economic sustainability: Affordable living costs, energy efficiency, reduced maintenance.
  - Social inclusion: Diversity design, integration of community services, common spaces.
  - Policy and regulation: Housing legislation, minimum habitability standards, tax incentives.
4. **Artificial Intelligence:** Using AI technologies in architecture to optimise building design, construction and management, improving efficiency, sustainability and personalisation of spaces through data analysis and automation.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Generative design: Using AI to create multiple optimised design options.
- Construction management: Site tracking, delay forecasting, resource optimisation.
- Predictive maintenance: Building monitoring, early failure identification.
- Data analytics: Using Big Data to improve building efficiency and sustainability.
- Home automation: Intelligent control systems for lighting, temperature, security.

- Building Information Modelling (BIM): AI integration to improve planning and coordination.

**5. Energy renovation:** This is the process of renovating existing buildings to improve their energy efficiency by incorporating thermal insulation, efficient HVAC systems, high-performance windows and renewable energies, thus reducing energy consumption and carbon emissions.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Thermal insulation: Wall, ceiling and flooring improvements.
- Window and door upgrades: Installing high performance units.
- Efficient HVAC systems: Replacing or upgrading heating, ventilation and air conditioning systems.
- Efficient lighting: LED, motion sensor use.
- On-site renewable energy: Solar panel installation, wind turbines.
- Financing and subsidies: Financial support programmes, tax incentives.

**6. Urban planning and climate adaptation:** Urban design and planning strategies aimed at revitalising urban areas, improving the resilience of cities to climate change through sustainable infrastructure, green spaces, water management and climate mitigation and adaptation measures.

By way of example, proposals will be considered that stand out in one or several of the following aspects or sub-themes:

- Resilient infrastructure design: Flood, earthquake, fire resistant construction.
- Sustainable mobility: Efficient public transport, bicycle infrastructure, pedestrian zones.
- Water management: Sustainable urban drainage systems, water recycling, flood protection.
- Green and blue spaces: Urban parks, rooftop greenery, green corridors.
- Mitigation policies: Emission reduction, energy efficiency in public buildings.
- Climate adaptation: Strategies to cope with sea level rise, heat waves, extreme weather events.

### **3. FORMATS (PROJECTS AND ROUND TABLES)**

Proposals to be sent must be in the following formats:

- Individual presentations: 20-minute talks in which a presentation is made of the building or infrastructure project, of its basic characteristics, unique or innovative elements, its construction process, its benefits and impact.
- Thematic round tables (maximum of 4 speakers + 1 moderator): 60-minute group session that will have 3-4 participants and one moderator who will steer the discussion and in which interaction and conversation between different participants will be encouraged; their opinions, perspectives and experience regarding different aspects of a specific topic of interest (directly related to the themes 1 to 6 reviewed in Point 2 of this document). This format does not provide for different consecutive presentations.

## 4. REQUIREMENTS FOR PARTICIPATION AND EXCLUSION CRITERIA

**4.a. To be eligible** as one of the **guest speakers or round tables** of the Sustainable Building Congress, it is **indispensable** to have as **participants users** who have adopted a solution applied to a **business case or project**.

- **User** of a business case means those **organisations that receive the value of the business** created by the technology or solution, which includes architects, technical architects, engineers, builders, developers, installers and fitters, and end users of the construction project.
- **Business case** means those projects that have commenced, are in progress or completed, in which innovative solutions and technologies are applied for the systemic tackling of construction challenges and for which metrics can be extracted of the impact and relevant learnings for the client.

**4.b. Proposals that do not include the participation of any user of the solutions presented will be AUTOMATICALLY EXCLUDED. The user is NOT the provider of the solution, material or technology, but rather the solution's recipient.** Presentations of a commercial and/or technical nature of specific solutions that do not demonstrate their connection with business cases that have been implemented in the market will therefore be ruled out.

## 5. CALENDAR

The calendar for this call has the following milestones:

- Opening date for the call: 16 September 2024
- Closing date for the call: 30 December 2024
- Evaluation: January - February 2025
- Notification: February 2025

## 6. Selection Criteria

### 6.1. Presentation of Projects

The **project** selection criteria will be classified on a scale of **100 points** and the following criteria will be taken into account in a weighted manner:

- Project fit with the proposed theme (**10 points**): the presented project must connect fully with the general theme that encompasses it (see themes 1-6 Point 2 of this document) and be related to some of the proposed sub-themes.
- Extent to which the project is novel in terms of time (**10 points**): the projects completed in 2024 or in progress to reach completion in 2025-2026 will obtain the same score in this category. Those projects that are completed before this, or those that are at a very early stage of development will receive a lower score (but they will be assessed).
- Uniqueness of the project (**20 points**): the highest rated projects in this section will be those that demonstrate the application of a singular element or innovation, a best practice that is a benchmark in the industry for this sphere of application that make the case a project that stands out from the crowd.
- Sustainable impact metrics and monitoring/certification tools (**25 points**): those elements that support the claim that projects are sustainable will be valued through metrics (of CO2 emissions, of water use, energy efficiency, materials, etc.), use of monitoring tools or that have certification schemes for the project (LEED, BREAM, Passivhaus, etc.).
- Use of techniques and technologies that connect with the Construmat ecosystem (**15 points**): projects that offer a greater variability of techniques, materials and construction solutions that connect with the ecosystem of Construmat participants (wood, concrete, industrialised or modular construction systems, energy and water use efficiency systems, BIM, management and monitoring software, etc.) will score more highly in this respect.

- Supporting materials with which to illustrate the presentation **(10 points)**: illustrations, plans, renders and graphic supporting materials and/or audiovisual materials that sustain the explanation of the proposal and visually illustrate the project in an attractive and communicative way.
- Recognition in this country and abroad **(10 points)**: having received a prize, recognition or a mention both in this country and abroad with the project presented or with the organisation/guest speaker who presents it will have an added value in the scoring of this category.

### 6.2. Panel discussions

The round table selection criteria will be classified on a scale of **100 points** and the following criteria will be taken into account in a weighted manner:

- Project fit with the proposed theme **(20 points)**: the presented round table must connect fully with the general theme that encompasses it (see themes 1-6 Point 2. of this document) and be related to some of the proposed sub-themes.
- Session focus **(20 points)**: those sessions that involve a focus of the discussion that is interesting for the audience, contributing an innovative perspective, seeking to tackle current challenges or future horizons of the industry in said theme.
- Uniqueness of the proposal **(20 points)**: session designs that are of a singular and unique nature, that have not been held previously in other venues and events of the industry (both on the basis of their thematic orientation and in terms of participant profiles) to offer the maximum level of interest and freshness to the Construmat audience.
- Degree of representativeness of the industry **(20 points)**: those round tables that seek to appeal more strongly to the different segments of Construmat participants: architects, technical architects, engineers, builders, developers, end users, or that represent a diverse range of profiles.



- Profile of the table members (**20 points**): higher scores will be given to those proposals that involve a panellist profile with a high degree of decision-making or recommending power, outstanding voices in the industry, and with gender diversity and geographical origin of the participants.

### 7. SUBMISSION

Proposals shall be submitted as per the information requirements stipulated on the candidate submission form posted along with this Call for Proposals, available at the following link:

<https://panel.helice.app/w/construmat>

Submission of proposals online will be open until **30 December 2024, 11:59 pm CET.**

All proposal submitted will be stored on a database accessible to the Programme Committee and the Programme Director of the Congress for their evaluation. People who send proposals in accept that their proposal will appear in this database that the Construmat team will use exclusively for the purpose of evaluating them.

### 8. INTELLECTUAL PROPERTY

The guest speaker authorises FIRA DE BARCELONA to record and photograph the talk. The said recording may be reproduced as part of the general conference materials, while their intellectual property rights to their work will be respected in any case.

In addition, the Guest Speaker grants to FIRA DE BARCELONA the right of reproduction of the copies of his/her presentation (for example, PowerPoint slides or supporting documents) in hard or soft copy, which may be published in communications media, journals, magazines and/or be distributed by streaming via the Trade Fair's website, or by means of posts on websites related to the Event's themes.

## **9. ADDITIONAL INFORMATION**

The proposals submitted constitute a formal commitment by the author to hold said session in and with the format, content and speakers proposed.

Any later change or modification of an accepted proposal is not assured and must be done in mutual agreement with the Congress Programme Director. The acceptance or rejection of the resulting communication in the final agenda of the congress will be at the latter's discretion.

The Programme Director reserves the possibility of including discarded speakers, in the event of the withdrawal or resignation of previously accepted proposals.