



SUSTAINABLE BUILD

INNOVATION CHALLENGE 2019

**HOW DO WE CREATE 'THE GREAT INDOOR LIFE'
IN OUR EXISTING AND FUTURE BUILDINGS?
THIS IS THE MAIN QUESTION OF THE 2019
SUSTAINABLE BUILD CHALLENGE.**

The majority of our daily lives are spent inside buildings, from working to playing, we are indoors 90% of the time. This calls for special demands on how we build, create, and renovate our homes, schools, and offices.

For many years, we have focused on creating low energy buildings, increasing the usage of healthy materials and integrating circular economy principles. In our search for effective solutions we have lost sight of the people who are going to live in and occupy these buildings. In addition, system challenges, a long value chain in construction, restrictive legislation and lack of financial incentives, have created barriers to holistic solutions.

We need to reconnect with the needs and behaviours of users – creating sustainable lives – in our existing and future buildings. A better life indoors is one where the indoor environment supports us to learn better in schools, concentrate better at work, and feel better at home. A good life indoors is one where we experience buildings and spaces that are adapted to us, rather than vice versa.

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SUSTAINABLE BUILD

THE INNOVATION CHALLENGE 2019

How do we create 'The Great Indoor Life', when renovating existing buildings as well as in designing, building and operating future buildings?

We are looking for projects and innovations, where:

- **HEALTH, QUALITY OF LIFE AND SUSTAINABILITY IS AT THE CORE.**
- **WE DESIGN AND IMPLEMENT SOLUTIONS THAT WORK ACROSS AIR, LIGHT, SOUND, MATERIALS AND MORE.**
- **WE LEARN FROM THE WAY WE USE, WORK AND LIVE IN BUILDINGS TO INFORM AND INTEGRATE INTO DESIGNS.**
- **WE ENSURE BETTER COLLABORATION BETWEEN ACTORS ACROSS ALL PHASES FROM DESIGN TO OPERATION, IN ORDER TO MEET THE EXPECTATIONS FOR THE GREAT INDOOR LIFE.**

WHO CAN APPLY?

This year, SUSTAINABLE BUILD is looking for projects and innovations globally that can provide solutions to the Innovation Challenge above. The solutions can be either stand-alone projects, or an innovative way of integrating existing solutions. In addition, we seek solutions for both existing and future buildings and for all phases, i.e. across concept, design, construction, operation, and renovation.

The key goal is to move from single solution focus to holistic approaches, and from measuring on individual effects to understanding the full user experience.

- **YOUR INNOVATION CAN BE A NEW TYPE OF PLATFORM, SYSTEM, PROCESS, METHOD, BUSINESS MODEL, PRODUCT, MATERIAL, COMPONENT – OR SOMETHING COMPLETELY DIFFERENT.**
- **THE INNOVATION CHALLENGE IS OPEN TO ALL SECTORS - WE WELCOME APPLICATIONS FROM THE CONSTRUCTION INDUSTRY AND BEYOND.**
- **WE ARE INTERESTED IN PROJECTS AND INNOVATIONS FROM EARLY STAGE TOWARDS COMMERCIALISATION WITH THE POTENTIAL TO SIGNIFICANTLY IMPACT 'THE GREAT INDOOR LIFE'.**
- **THIS IS A GLOBAL CALL TO ACTION - WE ENCOURAGE INNOVATORS FROM ALL AROUND THE WORLD TO APPLY.**

Important to us is that the solution contains both an indoor and environmental value. The solutions must therefore demonstrate new ways considering 'The Great Indoor Life' as well as energy, circularity, and materials.

Would you like to shape the next generation of sustainable buildings and contribute to The Great Indoor Life? Then apply for the SUSTAINABLE BUILD Innovation Challenge 2019 today, or before February 1st 2019 at www.sustainablebuild.dk/challenge

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SUSTAINABLE BUILD

CHALLENGE PERSPECTIVES

We believe that projects working towards the goal of achieving 'The Great Indoor Life', can contain some of the following perspectives:

INDIVIDUALISED SPACES FOR AIR, LIGHT, ACOUSTICS

We all have different needs regarding what type of indoor environment that best support our learning, concentration, and well-being. However, in most buildings it is often a predetermined one-size fits all solution. How do we create the right balance, between the design of a building as a shared space, and the individual needs for air, light, acoustics, and movement?

CONTROLLING INDOOR ENVIRONMENTS

The climate control systems operating in our buildings today have limited possibilities for interaction, creating a gap between the building and its users. How can we create systems that give users more intuitive control over their individual environment, for instance light, temperature, or acoustics?

ADAPTABLE PLACES

Today, many buildings are used for a single purpose only and are often unused in the outer hours, however this is changing with a need for better and more flexible utilization of our buildings. This change requires that we design, build and operate for a more flexible pattern of use and find ways to adapt existing buildings. Can we design the indoor environments to support changes in use and behavior over time?

USER EVALUATION AND FEEDBACK

Often, we do not evaluate users' satisfaction with how the building operates or try to understand their needs in the first place. The users of the buildings are typically not included much throughout the design or renovation process, nor in the post-construction phase of a building's life. So, how can we put focus back on the users? How can we incorporate user feedback to ensure lessons are learnt for future projects?

EXPLORING THE HIDDEN VALUES

Clarifying and quantifying the benefits of 'The Great Indoor Life' in terms of greater productivity and learning or better health and well-being can be challenging – but can new business and operating models incentivise and demonstrate this? How do we extract the currently hidden values of designing for 'The Great Indoor Life'? Is it possible to incentivise and drive collaboration throughout the building handover process?

WHAT IS IN IT FOR YOU?

In February 2019, SUSTAINABLE BUILD will select up to 10 projects and innovations. If selected, you will have access to the SUSTAINABLE BUILD partners and network, giving you the opportunity to collaborate on your project with leading experts, companies and organizations within the built environment. What will you get:

- **ACCESS TO THE SUSTAINABLE BUILD ACCELERATOR FORUM FROM APRIL 9-12, 2019, WHERE YOUR PROJECT OR INNOVATION WILL BE THE FOCUS FOR COLLABORATION WITH PARTNERS AND THE OTHER INNOVATORS.**
- **ACCESS TO ONE OF TWO INNOVATION TRACKS WHERE WE WILL EXPLORE THE OPPORTUNITY TO TEST YOUR PROJECT IN SELECTED PILOT PROJECTS IN COLLABORATION WITH SUSTAINABLE BUILD PARTNERS AND NETWORK.**
- **ONGOING SUPPORT BEFORE, DURING AND AFTER THE SUSTAINABLE BUILD FORUM.**
- **INDIVIDUAL PRESENTATION ESPECIALLY FOR THE FORUM MADE IN COLLABORATION WITH THE SUSTAINABLE BUILD TEAM.**
- **A PERSONAL VIDEO OF YOU AND YOUR PROJECT – WHICH WILL ALSO BE AVAILABLE AT [SUSTAINABLEBUILD.DK/CHALLENGE](https://sustainablebuild.dk/challenge)**

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