



## **EuroTeQ Collider 2023**

### **Theme:**

### **Development or application of innovative regenerative technologies in residential housing**

#### **Introduction**

Today, thanks to science, we already understand our impact on the planet. With every building we build, with every tonne of coal we burn, with every journey we make, we do small amounts of harm to the fragile balance of nature that sustains life. These small damages have now multiplied to the point that the cumulative damage now threatens our very existence.

Efforts to address this situation have shifted from a simple refusal to a green approach of doing less bad, or at best a sustainable approach that seeks to maintain the current, frankly quite dismal, situation. But these well-intentioned steps are far from enough to halt, let alone reverse, the effects of global climate change.

We believe that the only possible approach to the business of the future is one that aims not just to sustain, but to restore, and regenerate. It is simply an approach in which we look to see if we are giving more than we are taking.

And now it is up to you to help us bring this approach to life in the field of residential housing.

#### **Who is behind this initiative?**

JRD represents a group of companies involved in residential development, energy production, and waste management. All of our activities are based on a common philosophy that the path to a sustainable future lies in the combination of modern technology, clean energy, and a regenerative approach.

Since its inception in 2003, our JRD Development division has been involved in the construction and development of larger low-energy and passive residential projects. In these projects, in addition to low energy consumption, the emphasis is also placed on a healthy indoor environment and the development of community life.

In the coming years, we plan to build hundreds of new apartments in the Prague area, both as part of smaller projects and larger urban units (multi-stage projects).

#### **What is the challenge for the development or application of regenerative technologies in residential housing?**

The residential development business is specific mainly due to the duration of the life cycle of its products. The apartments we sell today are likely to last for decades. That is why we are already trying to design them today so that they will stand up to our future needs.

We are already seeing increased customer demands for economical and environmentally friendly buildings, and we are confident that this trend will continue and evolve as younger and more environmentally conscious customer groups (like you) enter the market.

Our challenge is focused on the future of residential housing. As we believe that the future lies in the development of regenerative systems and technologies, the challenge asks you to propose innovative concepts that meet the regeneration philosophy and that can be used in our residential projects.

The topic of regeneration is broad, and it is up to you whether you want to follow the path of innovative application of current technologies or the path of developing completely new ideas. At the same time, when searching for your topic, you can focus on the entire life cycle of buildings, from construction to operation to repurposing or demise.

However, keep in mind that the proposed solution must meet the following conditions:

- It meets the conditions of the regeneration philosophy (it does not merely maintain, but improves and renews)
- The solution makes economic sense (it brings real benefits or responds to real needs, and someone is willing to pay for it).

### **Relevant considerations for the challenge / theme:**

- In addition to environmental regeneration, consider also the regeneration needs of residents or communities.
- Be creative and think outside the box.