

PRESS RELEASE

CONSTRUCTION IN THE CONTEXT OF CLIMATE PROTECTION

Vienna, September 2023. **FCP.VCE's KliNa Day -Tag took place on 18 September 2023 in TUtheSky of the Vienna University of Technology and addressed property developers, designers and executing companies with the aim to further promote the topic climate protection and sustainability in civil engineering.**

The Viennese consulting engineering offices FCP and VCE launched the climate protection and sustainability initiative in civil engineering, in short "KliNa" in 2020 and established the KliNa Day as a day in the context of climate protection in civil engineering in 2022. The aim of KliNa is the critical discussion of all participants and the implementation of climate-friendly projects in the fields of construction, rehabilitation and mobility. In this year's KliNa Day we critically treated the question "We consider climate protection in construction, do we?" In terms of the sustainability initiative the event with more than 100 participants took place as certified ecological event.

Do we consider climate protection in construction?

The current figures of the Austrian Environmental Agency confirm that the building industry, particularly the construction and traffic sector, has the biggest potential for saving CO₂. Representatives from science and industry discussed this issue on the KliNa-Day 2023. They provided papers, case studies and best practice examples on sustainability topics in civil engineering like for example decarbonization, circular economy or building certifications.

"The KliNa Day serves for an exchange of knowledge, networking and discussion. I think we all agree that we can only cope with the energy transition together", said Hanno Töll, of the FCP.VCE KliNa initiative.

Bernadette Luger of the city of Vienna, municipal board for construction and technology, reported in her lecture "Zirkuläres Wien" (Circular Vienna) how the city of Vienna will manage the way towards the circular economy. **Teresa Liberto** and **Agathe Robisson** of the Vienna University of Technology / Institute of Material Technology, Building Physics and Building Ecology, investigated the question in their lecture how to save CO₂ with alternative building materials. **Anita Reiter** of Austrian Standards reported on the necessity to create consistent regulations and national standards for sustainable building and to establish these "green building rules" in practice. **Günter Steinbauer** of Wiener Linien reported on public local traffic as active climate protection.

Rehabilitation concepts for existing buildings

FCP.VCE supports decarbonization of existing buildings with the project “Sanierungskonzepte+”. “There are 600,000 units equipped with fossil energy sources in Vienna alone. A major part of them is only partly or not at all renovated. These figures show the big potential for introducing ecology in rehabilitation”, said Dariusz Binkowski, building physicist with FCP.

After a first meeting with the client and an inspection of the property, FCP prepares a green flag report, in which the recommended actions including prioritized measures are summarized and discussed with the client. In a second step the property is inspected in detail in a study of alternatives (potential analysis) where the thermal and energetic quality of the building and the effects of the measures are checked with regard to climate protection, sustainability, lifetime as well as amortization, i.e., a building value of the property after the rehabilitation. In a subsequent prioritization talk the final rehabilitation alternative will be fixed and “Sanierungskonzept+”, is prepared as final phase based on a detailed survey, optionally based on a 3D model. The thermal and energetic calculations are performed according to building simulations if required and based on that an economic efficiency calculation is elaborated. The client finally receives a tailor-made rehabilitation concept for the existing property, which includes measures and their impacts as well as an optional pre-check for a building certification.

Further information: www.fcp.at

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File name: FCP-KliNa-Tag_2023_01.jpg

Caption: The KliNa Day with more than 100 participants took place as certified ecological event in terms of sustainability.

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File name: FCP-KliNa-Tag_2023_02.jpg

Caption (from left to right): Teresa Liberto, Vienna University of Technology; Bernadette Luger, city of Vienna; Günter Steinbauer, Wiener Linien; Anita Reiter, Austrian Standards

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File name: FCP-KliNa-Tag_2023_03.jpg

Caption: FCP's KliNa initiative also comprises rehabilitation concepts.

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About FCP

FCP (Fritsch, Chiari & Partner ZT GmbH) with its headquarters in Vienna is an internationally active consulting engineering office with approx. 350 employees. With innovative power, know-how, passion and handshake quality FCP supports its clients in Austria and abroad in the implementation of sustainable and innovative projects. The planning and service activities in structural and civil engineering comprise climate protection concepts for municipalities, BIM-supported large-scale projects as well as



IDEEN WERDEN WIRKLICHKEIT

building certifications, greening of structures and climate-friendly mobility concepts. FCP offers perfectly tailored solutions for individual project demands.

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