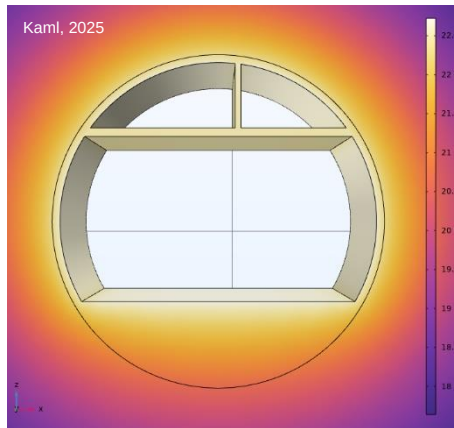




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FACT SHEET to the research project REGENERATE

SHORT TITLE / ACRONYM

REGENERATE

LONG TITLE

Re-use for energy exploitation and storage of existing urban
tunnels in Europe

DESCRIPTION

The FFG-funded research project REGENERATE investigates how existing underground structures in urban areas can be used for sustainable energy production and storage. While these infrastructures have traditionally served as transport or utility tunnels, their thermal exploitation offers previously untapped potential for advancing the urban energy transition.

REGENERATE is funded under the DUT Partnership by the European Union and coordinated by Politecnico di Torino. The project runs for three years (2024–2027) and involves a broad range of actors from academia, industry, and the public sector.

Seventeen partners from Italy, Germany, Romania and Austria are working together in a transdisciplinary consortium. Existing underground structures are being studied at selected pilot sites, in collaboration with the following universities: Politecnico di Torino (Italy), Technical University Darmstadt (Germany) and Technical University Cluj-Napoca (Romania). The different climatic, geological, and infrastructural conditions at each site allow for a robust analysis of the transferability of the developed solutions to other European cities and regions. On the Austrian side, the project partners include Wiener Linien, the Innsbrucker Kommunalbetriebe (IKB), and the City of Bregenz.

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