

# Cooling floors

UC5b

Given rising temperatures, low-CO2 cooling solutions are gaining in importance. In Use Case 5b, ASCR is developing solutions using the existing infrastructure:

- By **conversion** of the installed heat pump system, in summer heat is extracted from the living space in testbed D12 via the underfloor heating.
- The waste heat is used to heat water, and any excess heat is used to regenerate the groundwater.
- Examination of strategies for **marketability** as well as for **billing models**.
- Support from the social sciences in evaluation of the **acceptance** of the solutions by the test users in the residential building.

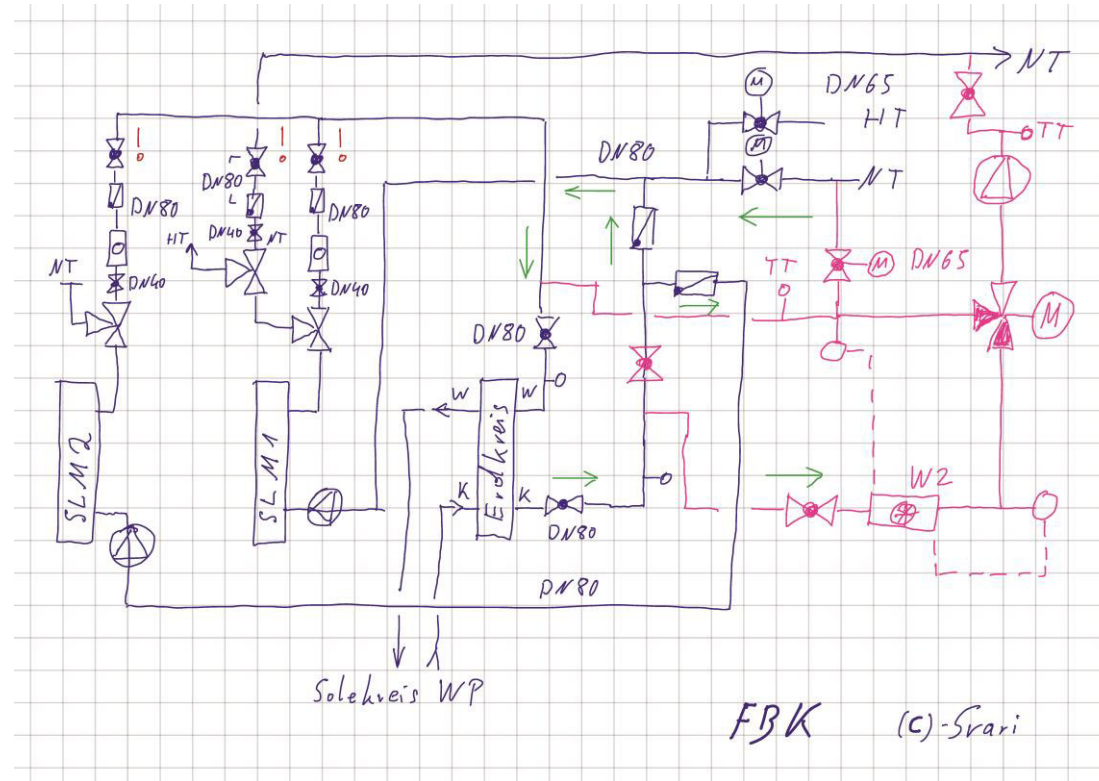
## Wien Energie

Budget: 0.25 million Euro

Testbeds: Residential buildings in Aspern Seestadt

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## The benefits:

- Underfloor cooling enables temperature control without draughts
- The extracted heat is employed to provide useful heat (hot water, ...)
- The developed system technology makes it possible to retrofit cooling in individual flats in existing buildings using the existing underfloor heating