



IWB – NEW CUSTOMER CENTER STEINEN

FIELD ANALYSIS OF GROUND COUPLED DIFFUSION-ABSORPTION-HEAT-PUMP FOR HEATING AND COOLING

Annual Report 2008

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SUMMARY

The new customer centre of *IWB Industrielle Werke Basel, Steinenvorstadt* contains a gas powered heat-pumping-system combined with a condensing gas-heating for heating and hot water production. This unit is part of an energy system, which on demand can switch between heating and cooling. Either the ground-water flow or a borehole heat exchanger will supply the heat-pump and the cooling system. The decision about which method will be used is still pending. The aim is to save as much energy as possible. In this project the efficiency of the heat production and distribution will be investigated. The building was constructed according to the MINERGIE-P®-standard and registered under BS-005-P. It has been opened in July 2008.

This year the tasks have been performed as scheduled. The measurement concept has been defined. The measurement system is partly finished and should be completed by the end of this year. The optimization of the system will be done beginning of next year, the measurements and evaluations follow from spring 2009.