



# HEAT RECOVERY IN COOLING PLANT INSTALLATIONS OF SUPERMARKETS

## Annual Report 2008

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### SUMMARY

In cooling plant installations of supermarkets there is a tendency to not do heat recovery. People assume that higher condensation temperatures, needed to do heat recovery, are raising electricity consumption too much.

Theoretically it can be shown that heat recovery is improving the energy balance of a supermarket substantially. To convince investors and engineers of this fact two cooling plant installations (Migros and Coop) are being monitored during one year. The installations will be operated with and without heat recovery so that overall difference of the energy demand can be analysed.

In 2007 the cooling plant of the Coop supermarket in Sursee has been equipped with the needed measuring instruments. Data were recorded for the period of March 2007 to April 2008. Due to data acquisition problem (heat counter) the measurements on the Migros installation was only started in February 2008.

A preliminary analysis of the Coop data was done. It showed about the expected results.