



## EDEKA Südwest Fleisch, Rheinstetten

The company is located in Rheinstetten close to Karlsruhe, which is central situated in the south-west of Germany. 850 members of staff assure a daily quality, freshness and choice of variety at more than 1200 food counters covering an area from Lake Constance to Saarland (approx. 450 km). Regarding their products the company strives for highest quality and service since 1970. Under this principle the whole company was restructured in 2011 aiming for to use most modern manufacturing methods regarding high-value meat and sausage specialities. Therefor they combine the knowledge, ability and dedication of proven experts – these include e.g. more than 230 specialised butchers.



### Technical data of the combined cold heat and power system:

electrical power: 1200 kW

thermal output: 1300 kW at 97/82 °C

saturated steam power: 1 t/h

cooling capacity absorption chiller: 580 kW at -7 °C

**savings:** the annual emission of CO<sub>2</sub> is reduced by approx. 30 % compared to conventional methods of construction. The foresight of this energy concept is shown in using ammonia as a natural refrigerant.

The **task** was given in assuring a possibility to supply energy using heat, steam, power and cold in a container solution under the conditions of being economically and environmentally friendly. The innovative solution has been realised in combining a high efficient cogeneration unit, a NH<sub>3</sub> absorption chiller, a steam generation by firing exhaust gas and an economical recooling plant that are connected to an intelligent control system.

