

# Reference meat producer in Zurich

## Ecological thermal energy from waste heat

### Background

- ▶ More effective use of low temperature waste heat from cooling and compressed air generation as well as waste water
- ▶ Producing hot water in a more ecological and efficient way

### System

- ▶ Three high-temperature heat pumps with environmentally-friendly refrigerant CO<sub>2</sub>
- ▶ Total heat output of 800 kW
- ▶ Produce 30 % of the heat demand



### Benefits

- ▶ Savings of 2,590 MWh in fossil fuels
- ▶ CO<sub>2</sub> emissions reduced by 30 %
- ▶ Efficient use of waste heat sources
- ▶ Compact design, less space requirements