



D / Massing
Required cooling capacity 690 kW
Project year: 2020

Cooling energy application

PROJECT POULTRY SLAUGHTERHOUSE

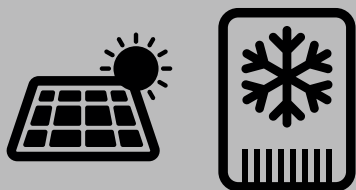


TASK POSITION

- Sustainable supply of a poultry slaughterhouse with electricity and cooling
- Constant cooling demand should be generated as regeneratively as possible
- Use of waste heat as recovery
- Optimisation of the CO₂ balance

SOURCE

Cooling unit



- Cooling unit with 690 kW
- Free-standing PV with 750 kWp
- PV surpluses during the day are stored in the form of refrigeration

Storage tank

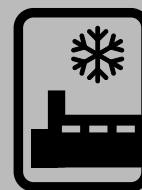
heatSel XL - 16 °C



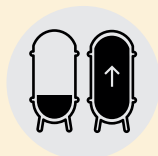
- Latent storage with V = 80,000 litres
- Storage capacity 3,600 kWh
- Water equivalent 360 tsd. litres
- Spread 8 K
- Increase the storage capacity by a factor of 4.5

heatStixx
inside

CONSUMER



- Required cooling capacity approx. 300 kW
- Glycol refrigeration circuit with -16/-8 °C
- PV cooling stored during the day can be called up continuously, with minimal mains power consumption



Increase
the storage capacity



CO₂
Einsparung



Peak-Shifting
Peak-Cutting

PARTNER



Modern chicken rearing

Geflügelschlachtere Gross GmbH is a family business now in third generation. In cooperation with regional farmers, it produces animal welfare-friendly and sustainable poultry meat according to the wishes of its customers.

CONTACT

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POWER TO HEAT SYSTEMS



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TASK POSITION



Praxisberichte · Kältetechnik

Fachartikel

Photovoltaik und Latentwärmespeicher

Nachhaltige Kälteversorgung in der Großschlachtere



Large-cooling network



Cooling unit 690 kW



Storage tank 80 tsd. litres with heatSel

Gross GmbH