



D / Rheinfelden
 Plant size: 6 kW_{el}, 13,5 kW_{th}
 Project year: 2019

heat application

PROJECT LOCAL HEATING NETWORK



TASK POSITION

- The primary energy factor of the network should be minimized so that the requirements of KfW funding are met
- The storage capacity should be increased to be able to do without an additional peak load boiler
- The running times of the CHP are increased
- Because of the small space available, the storage volume should be minimized

SOURCE

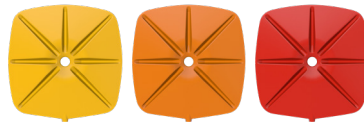
CHP



- Central CHP
- Heating center with little space
- Thermal power 13.5 kW
- Electric power 6 kW

Storage tank

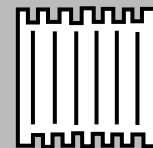
heatSel + 58 °C



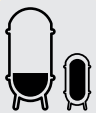
- Latent storage as a basic load storage, V = 2500 liters, Water equivalent 5250 liters, with heatSel ATS 58 °C
- Water storage as peak load storage, in series, electrically heated, V = 850 liters
- Memory size reduced by 52%

heatStixx
inside

CONSUMER



- 2 rows of buildings with a total of 10 WE, each 145m² living space
- Local heating network with 55/45°C in winter and 42/32°C in summer
- Home stations with electrical reheating



Minimization
the storage size



Higher runtime
Less clocking



Peak-Shifting

PARTNER



The Project ALTER GASTHOF

- 10 units of the type family happiness each with 145m²
- Divided into 2 blocks of flats
- Total area 2.359 m²
- CHP with 13,5 kW_{th}

CONTACT

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