



D / Urbach
 Plant size: 20 kW_{el}, 42 kW_{th}
 Project year: 2019

heat application

PROJECT LOCAL HEATING NETWORK



TASK POSITION

- Operation of an efficient and innovative energy area network
- Energy-efficient and economic networking of various energy generation and storage systems and implementation of a DC high-voltage storage and charging infrastructure in the commercial sector for the realization of small energy areas.
- At the same time, new concepts for realization and multiplication are developed and set up in the project

SOURCE

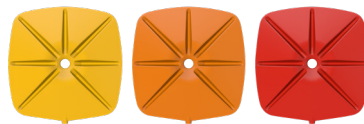
CHP



- Central CHP approx. 20 kW el. power + approx. 42 kW heat output.
- High-voltage battery storage capacity approx. 144 kWh
- PV system approx. 30 kW

Storage tank

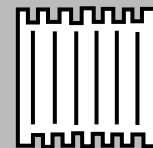
heatSel + 58 °C



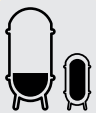
- Buffer storage tank, 2 x 1000 liters
- Integration as a hydraulic switch
- Storage capacity 166 kWh
- Water equivalent 9520 liters
- Capacity factor 2,38
- Spread 15 K

heatStixx
inside

CONSUMER



- Supply of different industrial buildings in the new commercial area
- Future surrounding existing buildings (single and multi-family houses, as well as municipal buildings)
- about 10 heat consumers
- about 2 - 3 pantographs



Minimization
the storage size



Higher runtime
Less clocking



Peak-Shifting

PARTNER



FM-Tech GmbH

- Specialist for sanitary, heating, air conditioning

CONTACT

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