



D / Schkölen
 Plant size: 5,36 MWel 17,2 MWth
 Project year: 2019

heat application

PROJECT LOCAL HEATING NETWORK



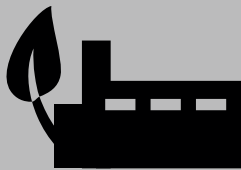
Bio-power plant Schkölen

TASK POSITION

- Extension of an existing local heating network
- The network is busy in terms of capacity, balance sheet still exists potential
- Expansion only possible with additional storage capacity
 → Peak-Shifting & Peak-Cutting
- Decentralized storage in individual buildings are charged at different times

SOURCE

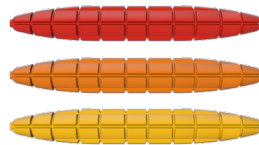
Bio-power plant



- Local heating network supplies several single-family homes
- Heat is transferred to individual buildings with transfer stations
- Intelligent grid control loads the memory at different times so that peaks are buffered decentrally (Peak-Shifting)
- Increase the energy density of existing lines

Storage tank

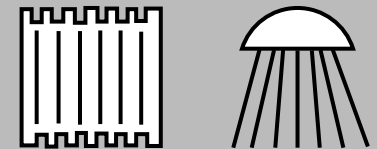
heatStixx + 58 °C



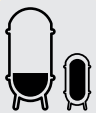
- Buffer storage tank, 1000 liters
- Storage capacity 40 kWh
- Water equivalent 2350 liters
- Capacity factor 2,35

heatStixx
inside

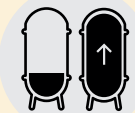
CONSUMER



- Supply of individual residential buildings with heating and hot water by means of fresh water station



Minimization
the storage size



Increase
the storage capacity



Peak-Shifting
Peak-Cutting

PARTNER



Bio-power plant since 2006

- State-of-the-art biomass plant with high-pressure steam boiler, turbogenerator system with wood firing (about 60% from wood chips)
- Flue gas cleaning through fabric hose filter system with pneumatic cleaning and upstream cyclone separator.

CONTACT

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