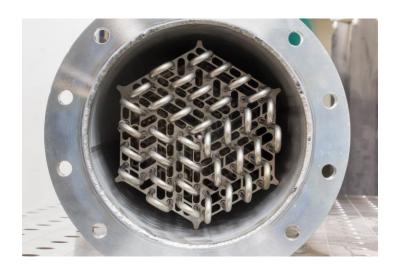
SIEKERKOTTE® ELEKTROWÄRMETECHNIK



Power-to-Heat An economic storage and consumption solution for renewable energies

AHK Unternehmerreise: "Eigenverbrauch und Speicherung von erneuerbaren Energien", 05.11.2019 Barcelona, Spanien

Siekerkotte GmbH & Co.KG - Wöltje Dunkake - Managing Director

SIEKERKOTTE® ELEKTROWÄRMETECHNIK

About Siekerkotte



- Founded 1989 by H.Siekerkotte in Herford, Germany
- Since 2014 part of the Schniewindt industrial group, that goes back 190 years in industrial history!
- Sales 2018: 2,5 Mio € 22 employees

Quality Management

- QM according to DIN ISO 9001:2015
- Certification of company
 - acc. to DIN EN ISO 3834-3 / DIN EN ISO 3834-2
 - acc. to AD2000 Merkblatt HP0
- Project individual certification acc. TÜV, DNV GL, etc.



SIEKERKOTTE® ELEKTROWÄRMETECHNIK

Customized solutions

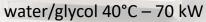
for the electric heating of e.g. ...

- water (demineralized, H2O-glycol etc.)
- oils
- air / gases
- salt etc.

In the performance range of 0,5 kW – 20.000 kW/ pc.











SIEKERKOTTE® ELEKTROWÄRMETECHNIK

Industrial markets



Industrial electric heating technology means almost always a process specific engineering of a heater. With years of experience in the industries that we serve we have acquired a profound knowledge of our customers environment and process realities. This insight is the basis of every new heating solutions by Siekerkotte!

Mechanical Engin.

- Indust. furnaces
- Filter technology
- Sterilisation tech.
- Steam generators
- Water heater
- Indust. parts cleaner
- Test facilities
- etc.

Process Engineering

- Chemical indust.
- Biogas plants
- Waste gas treat.
- Waste water tech.
- Technical gases
- Power plant tech.
- Power-to-heat
- etc.

Marine/ Offshore

- Fluid engineering
- Oil heater
- Heavy oil preheater
- Water heater
- etc.

Pharma/ Food

- WFI-conditioning
- Sterile air heater
- Bottling plants
- Brewing technology
- High-purity water treat.
- etc.



Power-to-Heat

An economic storage and consumption solution for renewable energies!

- An increasing capacity of renewable energies (solar, hydropower, wind, biogas) needs a matching demand for its peak performances!
- 40% of the end energy consumption is for heating!

Core advantages of Power-to-Heat as a solution!

- Power-to-Heat based on electric resistors is an energy efficient way to produce heat:
 x kW electric energy = x kW thermal energy
- Proven technology since more than 60 years
- Low maintenance cost emission free good control properties directly in the medium

Siekerkotte references solutions in the following exemplary applications:

- District Heat: Siekerkotte has supplied several MW heaters to power distributors that use the heaters as an addition in their heat production for a district heating grid.
 - Currently we are building a 8,5MW hybrid solution that is automated with a large battery.
- Industrial consumer: Electric heater as a single or add-on solution for process heating
- Stadiums: Electric heater as a power storage capacity for power distributors

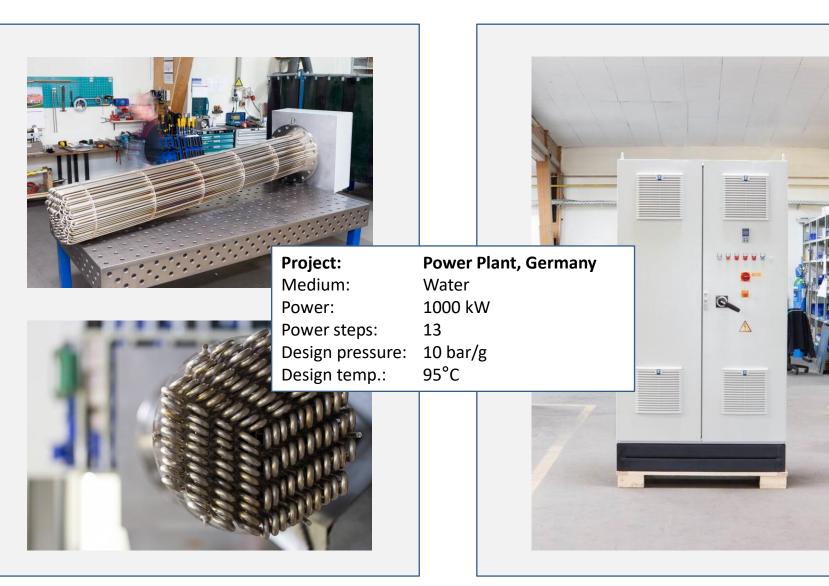


Reference projects (exemplary)





Reference projects (exemplary)



SIEKERKOTTE® ELEKTROWÄRMETECHNIK

Reference projects (exemplary)



Project: Exhaust Air Purification, China

Medium: Air

Power: 250 kW

Power steps: 1

Design pressure: atmospheric

Design temp.: 240°C



Project: Drying Furnace, Turkey

Medium: Air

Power: 180 kW

Power steps:

Design pressure: atmospheric

Design temp.: 570°C

Reference customer (exemplary)











GE Global Research





















• • •

SIEKERKOTTE ® ELEKTROWÄRMETECHNIK

Siekerkotte objectives in Spain



- Preffered partnership models with local partners that represent the company and its technology in Spain
- Support for the local partner comes directly from Engineering units in Herford, Germany
- In case of technical and commercial feasibility partnership with local producers
- Target market: Power-to-Heat, Industrial Engineering, Process Industry
- Preferred partner has the necessary experience on target markets and/or has an exisisting sales channel with complentary products e.g. pumps, HVAC, power plants supply etc.



Vielen Dank für Ihre Aufmerksamkeit!

Siekerkotte GmbH & Co.KG

Herringhauser Str. 25 – 32051 Herford

Tel.: +49 -5221 930 930

Email: siekerkotte@siekerkotte.de