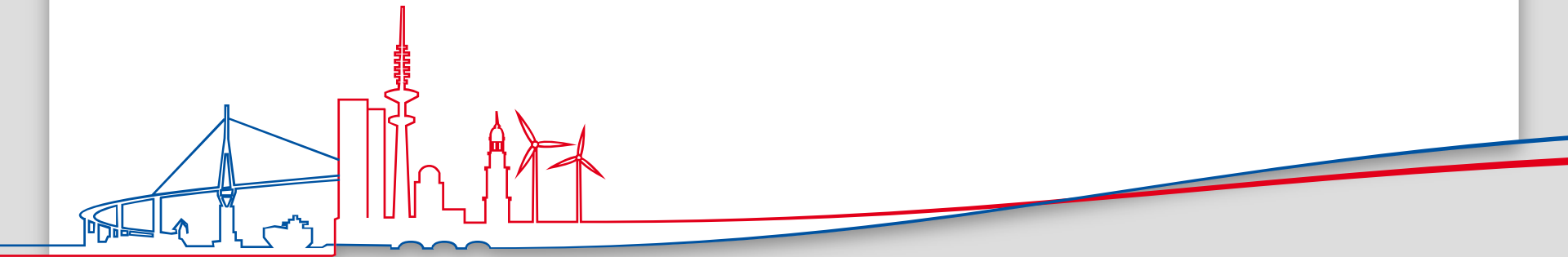


SOLAR DISTRICT HEATING CONFERENCE

Hamburg, 3rd and 4th June 2014



HAMBURG WASSER & HAMBURG ENERGIE



16 water works

5.400 km distribution network

1,1 million water meters

107,6 million m³ water delivery



4 wastewater treatment plants

5.900 km sewerage system

217.000 private connections

140 million m³ treated wastewater

34 power production plants

12.300 customers (gas segment)

84.400 customers (power segment)



HISTORY OF CCR

Water tower and filtering system

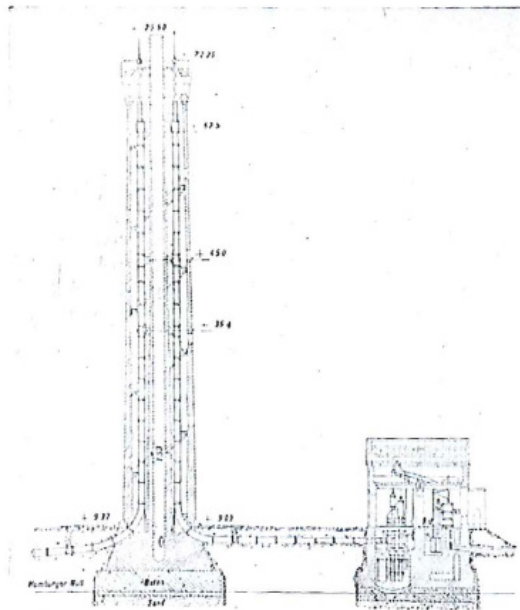


Abb. 6 Wasserturm und Maschinenhaus

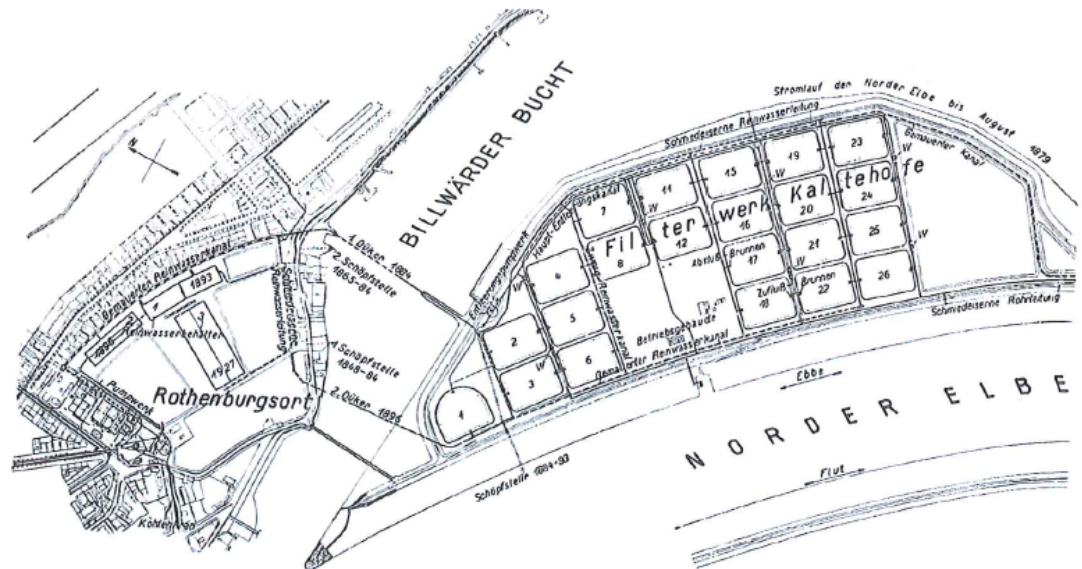


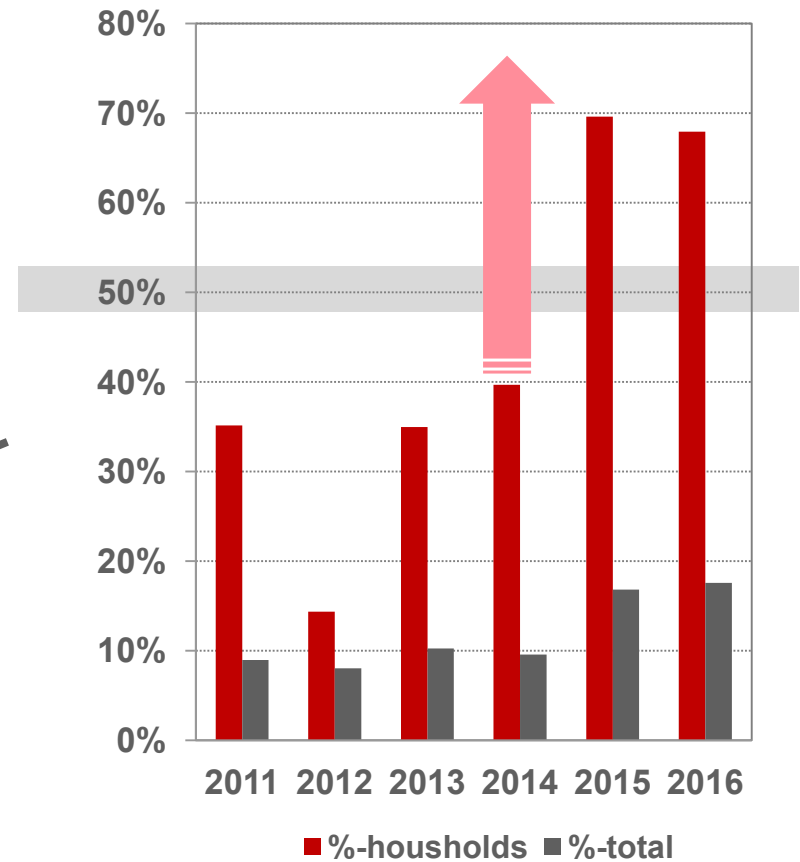
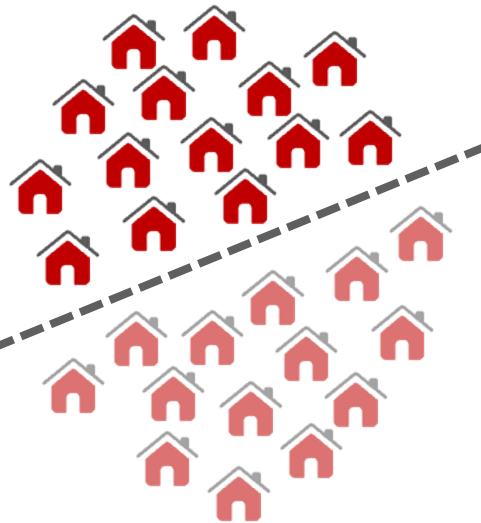
Abb. 7 Pumpwerk Rothenburgsort und Filterwerk Kaltehofe

REGENERATIVE ENERGY PRODUCTION

Investments in a sustainable energy production



50 %



**Hamburg Energie supplies 35% of its customers
with self-produced regenerative electricity**

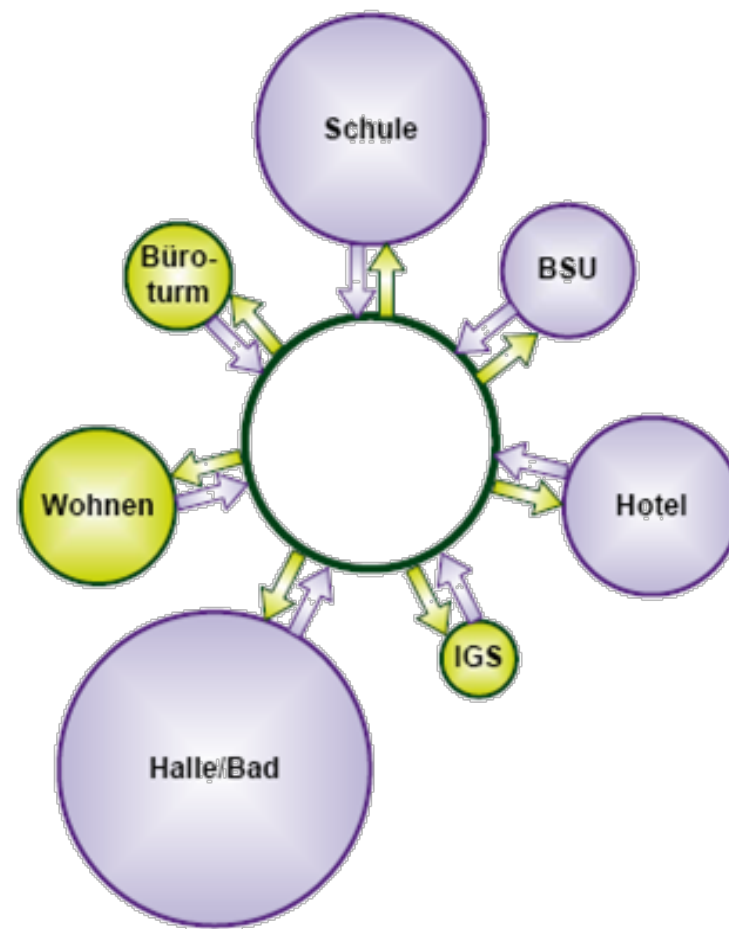
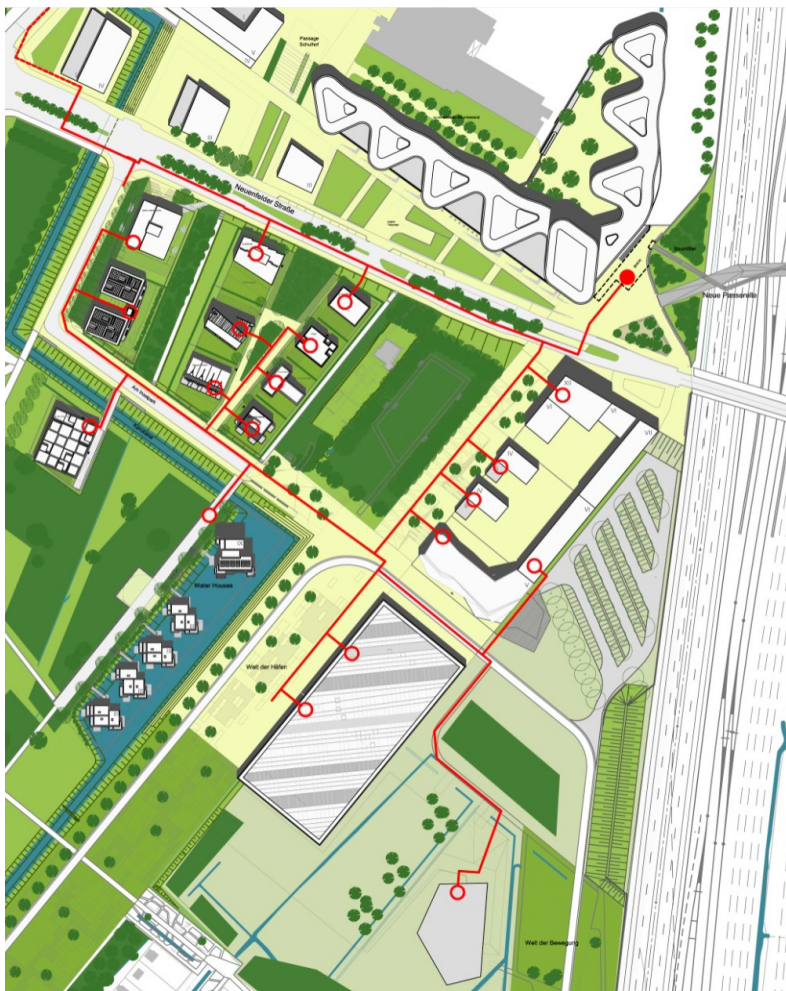
ENERGIEBUNKER

Heat supply for 3.000 households



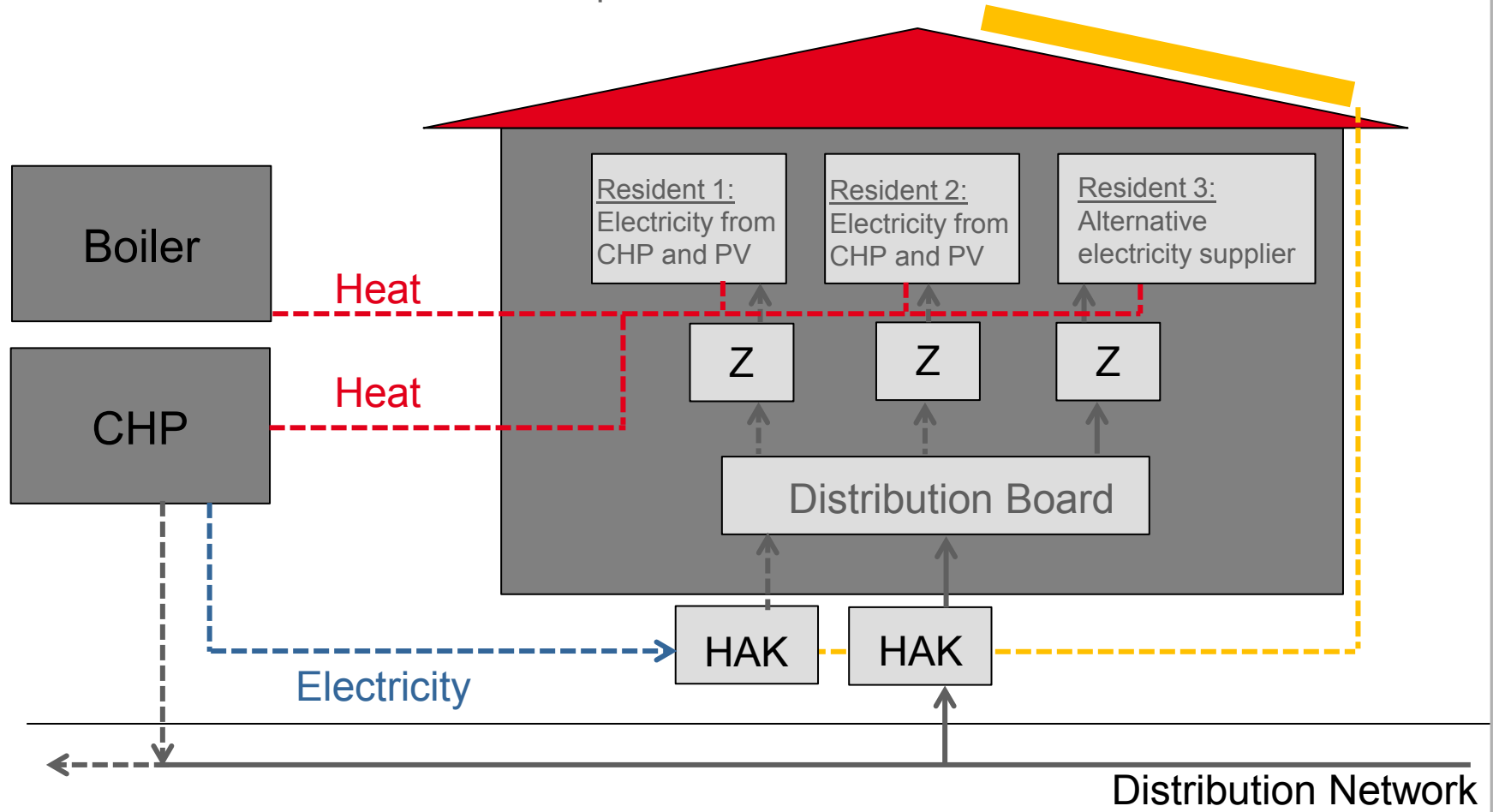
OPEN HEAT POWER GRID

Large CHP combined with decentral solarthermal supply



DISTRICT POWER AND HEAT SUPPLY

New CHP and Decentral PV concept



INTEGRATED POWER AND HEAT NETWORK

SPH - Smart Power Hamburg Project

