



COMMERCIAL INSTALLATION

Freie University, Berlin 2 x GG 140 SOKRATHERM CHP Unit

INSTALLATION COST:
€650,000 approx.

PROJECT:
FU Berlin's ambitious sustainability program has reduced the energy consumption of its ca. 200 buildings by over 25% since the year 2000. The university has signed a climate protection agreement with the city of Berlin to reduce its consumption of primary energy even further.

SOLUTION:
Three SOKRATHERM cogeneration units help to fulfill the agreement: Two GG 140 units installed in Düppel and one GG 237 in Lankwitz save primary energy by producing heat and electricity at once, therefore using natural gas much more efficiently than gas boilers.

Their heat and electricity production has been measured in the first months of operation and reached even higher efficiency rates than stated in the technical descriptions.

UNIT TYPE	2 x GG 140 SOKRATHERM CHP unit 284kW electric & 432kW thermal power
FUEL TYPE	Natural Gas
FUEL SAVINGS	4,900MWh / year
TOTAL EFFICIENCY	91.3% - Electric 36.2% & Thermal 55%
PAYBACK TIME	4 years
CO ₂ SAVINGS	3,100 tonnes / year