

A discrete long-term partner

MARIA-HILF HOSPITAL PLACES CHP UNIT IN THE NEIGHBORING CAR PARK



A combined heat and power plant from 2G provides the Maria Hilf hospital in Stadtlohn with a highly efficient supply of power and heat from a nearby biogas plant. The hospital's parking structure proved to be the perfect place to house it.

A 2G biogas power plant right in the middle of town

A nearby biogas plant produces climate-neutral power and heat not far from the hospital in Stadtlohn. The excess biogas is routed through a microgas network to the CHP at the hospital about 2 km away. Here, an agenerator 212 decentrally transforms the biogas into

power and heat for the hospital. The hospital's inner-city location and the high building density this entails proved a challenge in carrying out the project. For instance, the planning phase had to factor in not only noise protection requirements, but also the question of how to best integrate the agenerator into its surroundings on a visual level.

Optimal location in the hospital parking structure

While the noise protection requirements were met by using a super-silent concrete sound hood with a wall-thickness of 160 mm (noise



emissions of max. 45 dB (A) at a distance of 10 m), there was an equally impressive solution for the installation's appearance: the concrete sound hood together with the agenerator were inserted into the hospital's parking structure. To do so, a recess was made in the top deck, through which all of the components were lowered in using a crane. The colour of the concrete sound hood was matched to the colour of the parking structure.

KRANKENHAUS Maria-Hilf
STADTLOHN



Stiftung Maria-Hilf Stadtlohn

- agenitor 212
- Biogas
- 250 kW electrical
- 290 kW thermal
- Concrete acoustic enclosure

