

Reference Gießen municipal utility, Germany

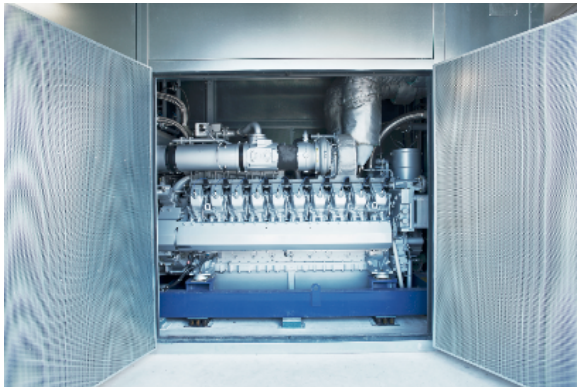
Modernization of the CHP system

Background

- ▶ Supply of households with electricity, gas, heat, water
- ▶ Reduction of primary energy demand and increase of renewable energies and CHP

System

- ▶ Bosch CHP system with flue gas heat exchanger
- ▶ 2 000 kW_{el} and 2 600 kW_{th}
- ▶ Total efficiency of 95 %



Benefits

- ▶ Efficient energy supply and grid stability
- ▶ Primary energy savings of 30 %
- ▶ Reduction of CO₂ emissions by 97 000 tons
- ▶ Amortization of the investment within three years