



Brønderslev Municipal Combined Heat and Power

25 Mega Watt gas fired heat and power plant

Denmark

IGSS Application

IGSS control and supervise the entire plant. One IGSS system with 5000 objects has been installed, servicing 9 Omron PLC's. 3 operator stations monitor and control the plant.

System Integrator

The system integrator for the project was Xergi A/S of Aalborg, Denmark.



Brønderslev Kommunale Værker

The plant is a large industrial facility with two tall chimneys and a large central tank. The image shows the exterior of the plant under a blue sky with clouds. Below the main image are two smaller inset photos: one showing a control room with a person at a workstation, and another showing industrial machinery.

Installation data:

Engine:	7 x Ulstein Bergen KVGS-18G
Fuel:	Natural gas
Electricity production:	7 x 3,060 kW
Heat output:	7 x 3,683 kW
Electrical efficiency:	41%
Thermal efficiency:	49% (flue gas cooled to 100°C)
Total efficiency:	90%
Storage tank:	1 x 8,000 m ³
Control system:	PLC/PC based (Omron/IGSS)
Building:	3,600 m ²

The plant was built in 1995 as a turnkey project and is the largest engine-based CHP plant in Northern Europe with natural gas as fuel.

The plant, situated in the town of Brønderslev in North Jutland, supplies district heating to the whole town with app. 3,000 consumers. The plant meets the strictest requirements for noise and combustion.