

Wolfsburg Purification Plant – Software Integration of the Biogas Combined Heat and Power Unit

LOCATION: Wolfsburg, Germany

SYSTEM/TECHNOLOGY: Simatic S7 / WinCC

SERVICES: Commissioning, Project management, Documentation, As-built status and data recording, Basic-engineering and pre-engineering, Detail engineering

INDUSTRY BRANCH/TYPE OF PLANT: Green Energy, Power Generation, Power plants

CLIENT: GE Jenbacher (now: Innio Jenbacher)

Tasks

Programming of a higher level control system and control for a sewage sludge drying plant. In addition, INP was assigned with the task of integrating a new combined heat and power unit by GE Jenbacher into the monitoring and control systems.

Project description

The combined heat and power unit and heating water boiler system serve to utilize the biogas produced in the biogas plant. The biogas can either be converted into electrical and thermal energy in the two combined heat and power unit modules, or high-thermal energy is generated with thermal oil as heat transfer medium with the help of a thermal oil boiler. The generated electric energy is fed into the network of the energy supply companies. The generated thermal energy is used for sewage sludge drying and district heating supply at the site.

The higher-level control system to be programmed by INP controls the return temperatures of the individual heating circuits, taking into account the gas storage level and, if required, it exchanges the heat energy in the heating circuits. The individual heat generators are also turned on or off depending on the load.

POINTS OF CONTACT



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