

INP Reference

IHKW Heidenheim – Cogeneration Plant

LOCATION: Heidenheim, Germany

SYSTEM/TECHNOLOGY: Siemens PCS7

SERVICES: Commissioning, Project management, Basic-engineering and pre-engineering, Detail engineering

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

CLIENT: INNIO / EnBW

Project description

As a part of a modernization of IHKW Heidenheim (industrial combined heat and power plant) on the factory premises of the company Voith, a complete replacement of three combined heat and power unit modules was performed by the company GE Jenbacher. In addition to power generation, the BHKW modules supply the hot water system of the IHKW and thereby secure the heat supply of several companies located in Heidenheim.

The control of the combined heat and power units is two-fold: in the module control (scope of delivery of GE Jenbacher) as well as the auxiliary plants control in PCS7 (scope of delivery of INP). The auxiliary plants control is integrated directly into the superordinate total control system (2 gas boilers, 5 combined heat and power units as well as the associated auxiliary equipment) in Siemens PCS7 technology.

POINTS OF CONTACT



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INP Services

- Hardware planning and delivery of the required switch cabinets for the auxiliary plants control (automation and power component)
- Basic and detail engineering software
- Creation of new operating and monitoring screens in SIMATIC WinCC
- System commissioning in connection with the superordinate PCS7 control systems
- Commissioning of the new operator screens, switch cabinets of the auxiliary plants controls and individual signals (drive systems, measurements, alarms and notifications, etc.)
- Optimization of the regulation functions
- Connection of the module control (combined heat and power unit) to the PCS7 main control systems via profibus DP
- Uniform system-wide visualization for the operator
- Integration of the 3 combined heat and power units into the automatic, load-dependent control system of the industrial combined heat and power plant Heidenheim