

## City of Bremen, Germany

Industry: Facilities Management



“As our regional supervisors can now access all heating systems from a central location, they will be able to successively optimize the systems one by one.”

*Rüdiger Heinenbruch  
Technical Operations Manager,  
Immobilien Bremen*

# City of Bremen Cuts Energy Consumption and Consolidates Building Management with Wonderware Solution

### Goals

- Unify more than 1,200 municipal properties under a single, open building management system (BMS)
- Optimize the efficiency of heating systems in the buildings to cut energy consumption

### Challenges

- The buildings were running proprietary BMS from several different vendors
- The properties were managed at six control facilities located around the city under the direction of five geographical districts and regional supervisors

### Solutions and Products

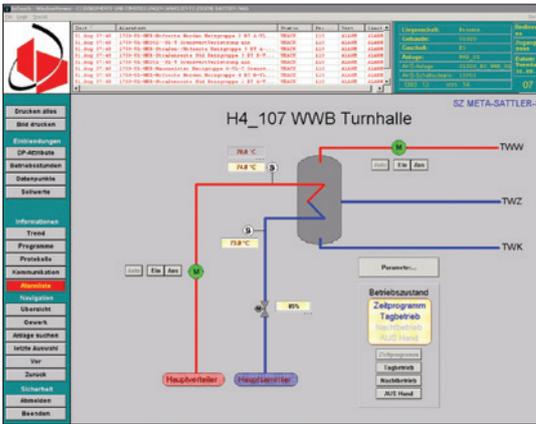
- Wonderware InTouch® HMI for Terminal Services
- Wonderware ActiveFactory™
- Wonderware Historian
- Wonderware Customer FIRST Support

### Results

- An open BMS based on the Wonderware solution is in place, centralizing the management of the extensive property list (160 facilities in all)
- Regional supervisors all now have access to the BMS
- Energy consumption is down by 15% to 18%
- Assumed cost saving of more than € 30,000 (US\$ 43,000) per year
- Adding buildings to the system is simple and more efficient due to the extensibility of the Wonderware software



## Success Story > City of Bremen, Germany



Regional supervisors working from any location can log onto the HMI and troubleshoot problems in real time at any of the City of Bremen's buildings. Wonderware InTouch also sends alerts and alarms to individual workstations, so operators can take swift corrective measures, and supervisors have visibility to their actions.

Detailed data about system performance is collected by the Wonderware Historian and stored on the central server. Engineers, managers and other workers can access this archived information to track changes made to the system, which enables them to continually optimize the BMS.

Reporting is made simple by Wonderware ActiveFactory™. This component of the new BMS provides reports that show trends for each building's performance. Report data can be downloaded and manipulated using Microsoft® Word or Excel® to streamline and simplify communications.

### Payoffs in Performance

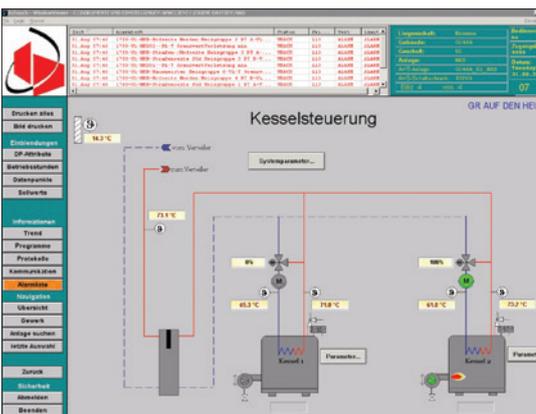
Soon after deployment, Immobilien Bremen and the City of Bremen began to see positive outcomes from the new BMS. Most importantly, heating systems throughout the facilities require less energy to operate, which was one of the primary objectives for the system.

“Optimum efficiency of a heating system is only achieved after a few months of careful adjustments. This level of optimized operation can cut energy consumption by around 15 to 18 percent,” said Rüdiger Heinenbruch, Technical Operations Manager, Immobilien Bremen.

Cost savings also have been realized because most modifications and extensions are implemented by internal staff rather than outside suppliers, thanks to the Wonderware software's ease of use, standardized tags and repeatability. Moreover, with the Wonderware solution in place across the entire City of Bremen system, engineers only need to learn one software solution, which saves financial and technical resources.

The common user interface with its simple-to-understand visualization of the BMS makes training more efficient and has increased user acceptance of the solution.

And, by using Wonderware software for all reporting, data transfer between the various control facilities is consistent in structure and information is processed more quickly.



## Success Story > City of Bremen, Germany

The main proof of success is the continued growth of the Wonderware solution: After an initial pilot phase during which about 50 facilities were integrated, today over 160 facilities are part of the BMS. And Immobilien Bremen and the City of Bremen are making plans for future extensions of the Wonderware solution. Since Wonderware is an international company with worldwide support capabilities, they will be able to reap the rewards of their initial investment and continue to experience improved energy efficiency.

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