



Service/Product Provider

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Business: Chiller Plant Services
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Industrial Partner

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Business: Pharmaceuticals
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tekWorx implemented an adaptive control system saving Schering-Plough \$150,000/year

Project Scope

Working together with Schering-Plough, tekWorx audited Schering-Plough's chiller plant and implemented improvements that included: modifying piping to convert the chilled water pumping to full variable flow, installing high performance rotary (HPR) valves on air handling unit (AHU) coils, installing the tekWorx Control and Energy Optimization (CEO) system to control all equipment associated with generation and distribution of chilled water, and integrating the CEO chiller plant control system with the site's Honeywell Enterprise Building's Integrator (EBI) facility management system to facilitate remote monitoring and maintenance. In addition, tekWorx trained operation and maintenance personnel on the system.

Project Summary

Implementing the recommended improvements eliminated the inefficiencies of the base operation that tried to accommodate the complex mix of varied equipment.

- **Energy Savings**
\$150,000/year or 1.2 million kWh/year
- **Investment**
\$300,000
- **Financial Return**
Two-year payback
- **Other Benefits**
Eliminated the need for additional equipment, improved and reduced required maintenance, and facilitated the identification of other energy-saving opportunities.

Monitoring & Verifying Energy Savings

The CEO system enables Schering-Plough to return the system to its previous hydronic configuration and operating sequence, allowing Schering-Plough to easily compare the pre-project and post-project energy usage and attendant costs at various demand levels throughout the full cooling season.

Distinguishing Value

"tekWorx worked seamlessly with the Schering-Plough personnel and created a positive atmosphere that ensured that the desired improvements were realized. They supported all aspects of the project from concept of improvements to verification of savings."