

BATES COUNTY HOSPITAL

ACCOUNTABILITY. RELIABILITY. PERFORMANCE.



TURNKEY PROJECT COST

\$1,741,841



ANNUAL PROJECT SAVINGS

\$168,483

"(Willdan's) approach demonstrated that they valued this project as a long-term relationship, not simply a vendor who was interested in getting a project to maximize their profits...The employees in the building can feel a difference in the environment. Our buildings are much more comfortable for the patients we serve and the staff caring for them."

- Ed Hannon, Bates County Memorial Hospital Chief Executive Officer

THE CHALLENGES

Bates County Memorial Hospital (BCMh) in Missouri had mechanical and control systems that were aged well-beyond their useful life and could no longer be maintained. Despite a major hospital addition that was constructed in 2002, most of the systems dated back to the 1960-1970's.

Importantly, the hospital had no comprehensive plan or strategy as to how to address the long-term replacement and optimization of these systems. At one point, the hospital administration attempted to improve the energy efficiency of the hospital's infrastructure through a traditional performance contract, but their Energy Star® rating was still a disappointing 37 even after they had this completed.

THE SOLUTIONS

Willdan designed and implemented improvements that would address the hospital's aging infrastructure, as well as improve its overall Energy Star® rating.

Specifically, the hospital infrastructure improvements were focused on addressing systems that were at imminent risk of failure. All infrastructure upgrades were comprehensively studied to understand the optimal engineering solutions for the future, with an emphasis on the lowest life-cycle cost.

PROJECT HIGHLIGHTS

Enhanced patient and provider comfort through improved HVAC infrastructure and advanced control system

BCMh's Energy Star rating drastically improved from 37 to 80.

Improved hospital air quality through new, reliable HVAC system installations

Designed and installed a hybrid boiler plant with a high-efficiency condensing boiler to improve boiler plant operation and efficiency

New building automation control system replaced the obsolete system in order to improve building comfort and reduce energy consumption

Installed dedicated heat recovery chiller for low load conditions and improved energy efficiency



Annual Project Energy Savings are Equivalent to the Carbon Sequestered by

2,048 trees

Case Study: HEALTHCARE



785.766.5630

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