



PROJECT PROFILE



BJC HealthCare St. Peters, Missouri



Project:

Barnes-Jewish St. Peters Hospital (BJSPH) is an acute-care hospital with 175 beds and more than 500 physicians on staff. BJSPH provides full inpatient services and emergency care backed by the technology and expertise available through their link with 15 other hospitals in the BJC HealthCare System. BJSPH believes that it is important to be good stewards of our resources for an environmentally sustainable future. In support of that commitment, BJSPH sought out innovative green technologies for the campus to reduce impacts on the environment.

Application:

Utilizing the resource-efficient Scale Free System on heat exchange equipment will immediately reduce the environmental footprint of a facility by eliminating toxic water treatment chemicals. Installing the Scale Free System presented BJSPH a compelling opportunity to generate operational savings while treating water in an environmentally friendly manner.

Scale Free was installed on a 500 ton evaporative condenser and chiller in 2011. Throughout the evaluation period, Scale Free's performance far exceeded the expectations of BJSPH's administration and facilities staff. Initially, the facilities maintenance staff was hesitant to endorse the non-chemical approach, but the results they witnessed with the Scale Free technology changed their minds.

Results/Benefits:

- Scale Free was installed on remainder of heat exchange equipment at hospital - 1200 tons cooling towers/chillers/boilers.
- Immediate reduction of environmental footprint by eliminating toxic water treatment chemicals.
- Scale Free controlled scale, corrosion and microbiological contamination.
- 12% Energy Reduction 9.8% Water Usage Reduction
- Lowered operating and maintenance costs.

"I was very skeptical of using" a non-chemical system, "but I have changed my mind after seeing this and how clean the tubes were in the chiller. I am very pleased with the performance."

Randy Earp, Lead Maintenance Mechanic at BJSPH



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