



Meadville Medical Center

Meadville, Pennsylvania

Upgrades and improvements to facilities while maintaining superior levels of service to the Meadville Community

Problem

Meadville Medical Center, the third largest in Northwestern Pennsylvania, is a community hospital with over 100 medical staff, including 37 medical/surgical specialties and an extensive primary care foundation. It serves a community of 75,000 residents. While focused on providing the community with the best level of service at the lowest costs, the Medical Center is also faced with the challenge of upgrading and improving the physical facilities as well as reigning in spiraling operational overhead, particularly energy costs.

Resolution

Optimira put together a comprehensive energy efficiency and pollution prevention project that aimed to address the stated objectives, and long-term interests, of the Medical Center. The Center sought reduced utility costs, reduced maintenance and operations costs, improved building environment, and improved building comfort conditions. The project cost was \$3,146,391.

Project Description

The Optimira team implemented a number of initiatives to address Meadville Medical Center's objectives. New cooling towers, new chillers, and new summer boilers were all installed. Ductwork modifications were put in place as well as dampers for AHUs. Sub-metering was installed to more accurately gauge water usage of the cooling towers. Additionally, extensive water conservation measures were pursued. VFD controls were installed for the cooling towers, together with control systems for the kitchen fume hoods. New air handling units were put in place within the HVAC system and an extensive lighting re-design was implemented. A xylene reclaim still was installed as a pollution prevention measure to reduce infectious waste. Optimira also took responsibility for establishing a communications awareness and training program focused on energy conservation.



End Result

The project is set to deliver a \$350,471 annual savings over a ten year period.