

Theda Clark Medical Center, Wisconsin



Type of building: Hospital campus

Size: 550,000 sq. ft.

Built: 1909, many additions/revisions since

Energy use prior: 339 kbtu/sq. ft.

Energy costs prior: Approx. \$2.3 million/year

Cost savings identified: Nearly \$800,000/year; approximately 30% of energy costs

Payback: Approx. 4.3 years

Top opportunities identified

- Scheduling air handling units to shut down during unoccupied hours
- Retrofitting lights to more efficient bulbs/ballasts/reflectors; allows for 1-2 bulbs rather than 3-4
- Adding automated lighting sensors/controls
- Retrofitting boilers
- Incorporating scheduling changes for heating and cooling mechanical systems
- Insulating pipes, valves and pumps
- Removing lights from vending machines

With an annual utility bill of approximately \$2.3 million a year and energy usage of 339 kbtu per square foot (the Wisconsin hospital average is 252 kbtu), administrators at Theda Clark knew something needed to be done. They called on Gundersen Health System's Envision® team for help.

During an energy check-up performed by Gundersen, over 110 energy conservation measures (ECMs) throughout the campus were identified. By implementing about 25% of those ECMs, Theda Clark could see energy savings of roughly \$800,000. It would also offset nearly 7,000 metric tons of CO₂ being released into the atmosphere. That's the equivalent of planting 1,500 acres of forest or removing 1,334 automobiles from the road.

"The Envision team gave us a kick start and, just as important, a system for identifying energy waste and also identifying the most cost effective means to eliminate that waste. I highly recommend Gundersen's Envision team to any organization looking to better utilize resources and reduce energy costs."

-Albert Park, director of Facilities Planning, ThedaCare