



# Acute Care Hospital in Texas

The Optimum Energy solution is providing an acute care hospital in Texas with 32% efficiency improvements and crucial visibility into plant operations.



## Opportunity

- 2 million sq foot facility, 898-bed acute care hospital
- Requires 8760 hours of cooling annually
- Was operating at an average annual electrical plant efficiency rate of 0.953 kW/ton

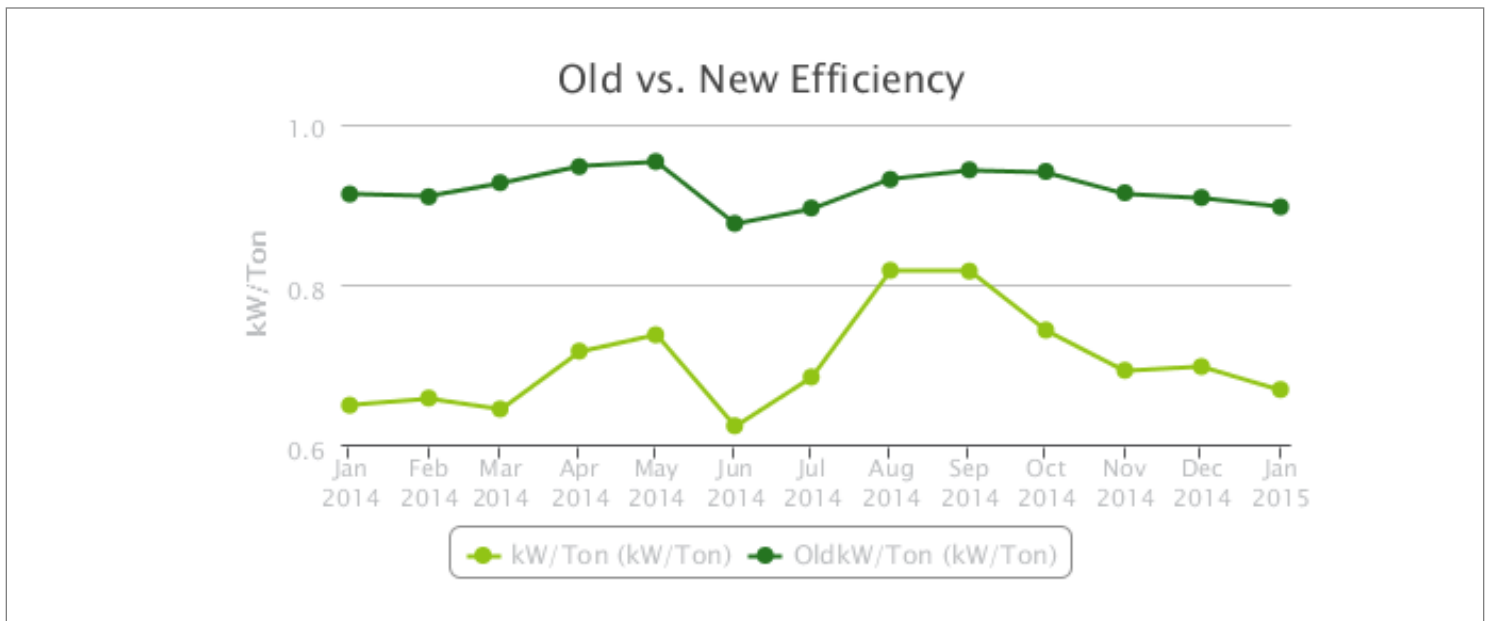
## Solution

- Converted the existing chilled water plant with an all-variable flow OptimumLOOP-based plan
- Worked with partner (Entech) to modernize the control system and install new or calibrate existing power meters on equipment

## Results

- Average efficiency rating: 0.65 kW/ton - a 32% improvement
- Average monthly energy savings: 425,000 kWh
- Total energy savings in 2014: 5.5 million kWh
- OptiCx software increased visibility into plant operations:
  - Led to the discovery of costly repeated manual overriding of the setpoints on one of the loops
  - Avoided potential catastrophic chiller failure by pinpointing maintenance issues affecting 3 of 6 chillers

# Acute Care Hospital in Texas: Optimized vs. Baseline kW/Ton



- Baseline: 0.953 kW/ton
- Efficiency Improvement: 0.30 kW/ton
- Optimized Performance: 0.65 kW/ton

## ABOUT OPTIMUM ENERGY

Optimum Energy provides a proven solution that delivers significant and sustained efficiency gains of up to 50% in HVAC systems. The OptiCx Platform combines technologically advanced HVAC optimization software with world-class expertise in system design and operations. It's a proven, systematic, and scalable approach that reduces resource usage—water, electricity, and people—while providing detailed insights into how building systems operate in real time. The result is vastly improved operating efficiency, which further increases savings, and importantly reduces overall carbon emissions. For more information please visit [optimumenergyco.com](http://optimumenergyco.com).