

Alegent McAuley Center ECO 24/7SM Case Study

Energy, Commissioning and Optimization Services (completed in July 2011)

- » Implemented ECO 24/7 Digi-RTU Optimizer technology on all three RTU/AHUs
- » Implemented ECO 24/7 Fan Airflow Station technology on supply and relief fans of all three RTU/AHUs
- » Implemented ECO 24/7 Pump Flow Station technology on hot water pumps
- » Optimized RTU supply fan, relief fan, economizer, supply air temperature and operating schedules
- » Implemented ECO 24/7 optimized terminal box operation and control

Benefits

- » Utility savings from ECO 24/7 is \$60,150 annually
- » Electricity demand was reduced by 54.2 kW and resulted in an OPPD IEEP Incentive of \$21,680
- » Improved system reliability
- » Reduced comfort complaints
- » Improved indoor air quality

Annual Energy Savings

- » Reduced total building energy consumption by **47%** (based on 12 months of utility data since project completion)
- » Reduced electricity consumption by **16.4%**
- » Reduced natural gas consumption by **65.9%**



Alegent McAuley Center
12809 West Dodge Rd.,
Omaha, NE

- » Built in 1988, remodeled in 2008
- » 3-story office building
- » 95,000 square feet
- » Two VAV RTUs with gas heat
- » One VAV AHU with hot water preheat
- » 152 single-duct VAV terminal boxes
- » Modern DDC controls

