

Alegent McAuley Center

ECO 24/7SM Case Study

Energy Commissioning and Optimization Services (completed 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 schedule
- » Implemented ECO 24/7 optimized terminal box operation and control

Benefits

- » Improved system reliability
- » Reduced comfort complaints
- » Improved indoor air quality

Energy Savings

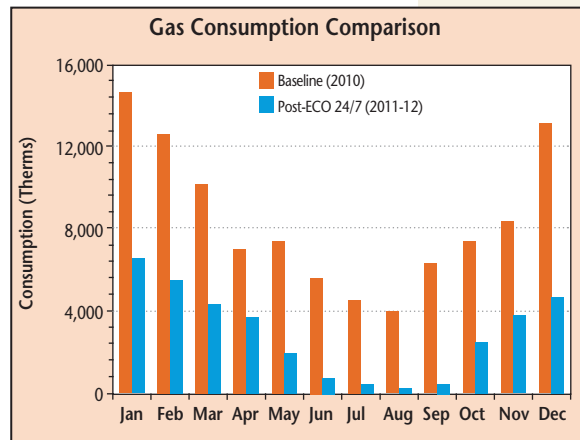
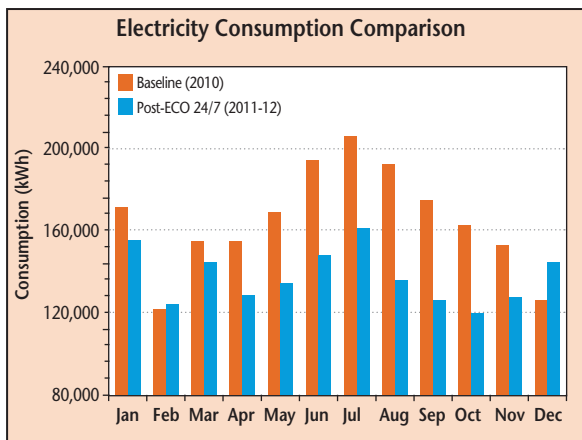
- » Reduced total building energy consumption by **47%** (electricity consumption by 16.4%, natural gas consumption by 65.9%) based on 12 months of utility data since project completion. The resultant annual utility cost savings is **\$60,150**. In addition, electricity demand was reduced by 54.2 kW and resulted in an OPPD IEEP Incentive of \$21,680.



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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



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