

Regency Center ECO 24/7SM Case Study

Energy, Commissioning and Optimization Services (completed in August 2004)

- » Upgraded the pneumatic HVAC controls to DDC controls
- » Commissioning and optimization of the HVAC system
- » Optimized the AHU operation
- » Implemented dynamic airflow reset in terminal boxes
- » Implemented variable chilled water flow and optimized chilled water supply temperature reset
- » Optimized the boiler operation

Benefits

- » Utility savings from ECO 24/7 is \$107,000 annually (based on four years of utility data since project completion)
- » Improved system reliability
- » Improved building comfort

Annual Energy Savings

- » Reduced electricity consumption by **43.5%**
- » Reduced electricity demand by **28.4%**
- » Reduced natural gas consumption by **45.1%**



Regency Center Omaha, NE

- » Built in 1970
- » 5-story office building
- » 71,000 square feet
- » Single-pane glass windows
- » One dual-duct VAV AHU
- » Three air-cooled chillers
- » Pneumatic controls

