

# Kiewit Plaza

## ECO 24/7<sup>SM</sup> Case Study

### Energy Commissioning and Optimization Services (completed in September 2006)

- » Optimized controls for air handling units
- » Commissioned all terminal boxes
- » Implemented dynamic airflow reset in terminal boxes
- » Implemented ECO 24/7<sup>SM</sup> pump flow stations for chilled water pumps and condenser water pumps
- » Optimized primary, secondary and condenser water pump control
- » Implemented ECO 24/7<sup>SM</sup> fan airflow stations for AHUs

### Benefits

- » Reduced comfort complaints and consistently maintained building comfort
- » Improved reliability of HVAC system
- » Improved building pressure control
- » Improved indoor air quality

### Energy Savings

- » Reduced annual HVAC electricity consumption by **65%**
- » Reduced natural gas consumption by **50%**
- » First year utility cost savings is **\$190,500**
- » Savings sustained since project completion



## Kiewit Plaza

3555 Farnam St.  
Omaha, NE

- » Built in 1960
- » 16-story office building
- » 237,000 square feet
- » Eight VAV Air Handling Units
- » Two centrifugal chillers
- » Five boilers
- » Advanced EMS system
- » HVAC system retrofit completed in 2000

