UNIVERSITY of NORTH TEXAS HEALTH SCIENCE CENTER
FACILITIES MANAGEMENT

Previous/Current/Future Energy Conservation and Cost Reduction Efforts

Energy Performance Project

- Goal: reduce energy consumption and cost while upgrading infrastructure
- Implemented in 2001
- Campus wide lighting retrofits
- Mechanical, Electrical, Plumbing equipment upgrades
- Building Automation for HVAC to control temperature set points during occupied and unoccupied times
- Results from 2001 to present:
    - Reduction of 42,249,011 kWh of Electricity
    - Reduction of 645,819 CCF of Natural Gas
    - Based on EPA figures, these results correlate to a reduction of Carbon-Dioxide emissions by approximately 419,178 tons. This is approximately equivalent to removing 83,836 cars from the road for one year, or planting 114.016 acres of trees
    - Total cost savings to date, using actual monthly rates, is $3,672,845

Building Automation

- HVAC
- Irrigation
- Occupancy Sensors for Lighting and HVAC
- Automatic Faucet and Flush Controls in restrooms

Detailed Energy/Utility Audit 2008/2009

- Identify opportunities to reduce energy consumption and cost while upgrading infrastructure
- Audit to be completed late Spring 2009
- Recommended project to be presented to the Board of Regents in May 2009

Building "A"

- Being designed and constructed to be Leadership in Energy and Environmental Design (LEED) Silver Certified
    - "Sustainable, Green" design and construction
    - Benefits include a more reliable building that utilizes less energy

Electricity and Natural Gas Procurement

- Flexible contracts for purchasing electricity and natural gas to reduce cost
- 2006 Cost Avoidance: $331,000
- 2007 Cost Avoidance: $741,000
- 2008 Cost Avoidance: $537,000
- 2009 Cost Avoidance to date: $94,000