



Project Cost

\$14,203,262

Annual Project Savings

\$1,168,904



Utility Conservation Measures

- Lighting retrofit
- High-efficiency chiller
- New motors
- Variable frequency drives
- Water conservation
- Decoupler installation
- Chiller plant automation
- Boiler replacements, control
- Condensing economizer
- Steam distribution pressure automation
- Pipe low pressure steam to de-aerator tank
- Pool heating system



Southern Methodist University Dallas, TX

Utility Conservation Project

Since 2005, Southern Methodist University has contracted with Schneider Electric (formerly TAC) to complete several efficiency, mechanical, and building control measures in four phases.

Schneider Electric provided and installed a high-efficiency 2,400 ton centrifugal chiller in Patterson Hall and connected it to the TAC building control system. Additionally, two new boilers were installed and they, plus the entire central chiller plant, were automated through use of the system. A decoupler system was implemented at the central chiller plant to provide a very energy-efficient sequence of operation for the chillers.

Select air handling units on campus were upgraded or modified to improve mechanical condition and energy performance. Generally, Schneider Electric converted constant-volume multi-zone air handling units to variable-volume multi-zone units and replaced some older units for capital equipment improvement purposes.

A new 200 ton water-cooled, screw chiller will be put in place as a heat source for the Bar pool, decreasing the pool's gas usage significantly. Another measure will provide a larger fan for the condensing heat exchanger to permit the system to handle flue gases corresponding to 20% higher steam loads.

New lighting was installed in 25 buildings to improve efficiency. Several new pumps, 107 premium efficiency motors and 89 variable frequency drives were installed to improve overall efficiency.