

Oklahoma County



CUSTOMER BENEFITS

- Guaranteed energy savings
- Renovations funded by savings
- Centralized and remote system access
- Flexibility to expand systems

PROJECT AT A GLANCE

Project Type:
Energy Performance Contract

Location:
Oklahoma, USA

Number of Buildings:
8

Guaranteed Annual Savings:
\$226,137

Energy Conservation Measures:

- New energy management system
- Lighting upgrades
- 12 air handling units
- 50 variable air volume boxes



Rising energy costs and uncomfortable environmental conditions motivated Oklahoma County to enter into a performance contract that funded necessary renovations for eight buildings using guaranteed energy savings.

The Challenge

Trying to cope with rising energy costs and outdated systems presented numerous challenges for multiple municipal facilities. Most struggled with obsolete technology that resulted in inefficient energy usage, stagnant air, insufficient heat in the winter, and inadequate cooling in the summer.

County commissioners decided they needed a long-term energy solution that would reduce utility costs while providing a more comfortable atmosphere for municipal employees and visitors alike.

Oklahoma County signed a performance contract with Schneider Electric, using the energy savings to fund necessary renovations in two phases. Phase 1 targeted lighting and energy management issues in seven buildings, while Phase 2 focused on upgrading systems in the County Annex building, which is the heart of Oklahoma City's government.

The Solution

During the survey of the municipal facilities, Schneider Electric energy specialists worked closely with Oklahoma County engineers to review requirements for each building. Schneider Electric then developed the scope of work to tackle the energy consumption and comfort issues head on.

The County agreed to a 10-year performance contract for Phase 1 and another for Phase 2. Phase 1 would be financed through a tax-free, municipal lease/purchase plan and funded by guaranteed annual savings of \$226,127. Phase 2 offered guaranteed annual savings of \$44,027.

To reduce energy costs and minimize kilowatt usage, lighting fixtures in some buildings were replaced with more efficient lamps and electronic ballasts. New variable air volume fans installed assured uniformly comfortable environments.

In addition, the replacement of outdated boilers and air-cooled condensing units enhanced operational efficiency and lowered costs. Installation of a countywide energy management system seamlessly linked all buildings while providing local and remote access for the facilities staff.

The Bottom Line

Schneider Electric guaranteed that Oklahoma County would save a total of \$877,558 by the third year of the performance contracts. However, actual energy savings amounted to \$1,204,123 – a 37 percent increase over the original projection!

Comprehensive training and support from Schneider Electric now allows the County's facilities staff to self-manage and maintain the new systems, quickly pinpointing potential problems and adjusting systems locally or remotely as needed.