

# UNIVERSITY OF KANSAS

ACCOUNTABILITY. RELIABILITY. PERFORMANCE.



**M&V PROJECT SCOPE**

**\$25,600,000**



**COMMISSIONING SCOPE**

**\$10,000,000**



**LED PROJECT SAVINGS**

**\$180,000 (5-yr payback)**

*"(Willdan) have been responsive to our needs, and have often gone far beyond our agreed-upon terms to ensure the successful verification of the University's energy savings program. If you are considering a project in which achieving and verifying energy savings is important, I would highly recommend Willdan."*

**- Shannan Nelson, University of Kansas Director of Business Operations**

**Case Study: HIGHER EDUCATION**

## ONGOING PARTNERSHIP

Willdan has a continuing trusted partnership with the University of Kansas (KU) to provide engineering services to meet a variety of facility and energy-related needs following two other ESCO performance contracts that proved to be unsuccessful.

**M&V WORK:** In order to protect the energy saving interests of the University, Willdan helped KU with a \$25.6 million performance contract that was completed in 2011 and was in need of a 3<sup>rd</sup> party to provide measurement and verification (M&V) services to protect the University's investments against energy-saving pitfalls.

**COMMISSIONING WORK:** The University asked Willdan to assist as the commissioning agent for a Phase II building project of the \$10 million Bioscience Technology and Business Center (BTBC). The addition constituted a 28,000 square foot expansion to provide additional office and lab space with areas needing specialized equipment and indoor air quality considerations.

**LED PROJECT WORK:** Willdan helped the University when they wished to replace metal halide and high pressure sodium lighting with energy efficient LED lighting at the Allen Field House and Mississippi Street parking garages. The project improved both energy usage and garage light quality.

## PROJECT HIGHLIGHTS

**Utilizing a rigorous M&V protocol** Willdan was able to assist the University to review ESCO proposed adjustments as part of our 3<sup>rd</sup> part M&V services for the University's existing performance contract

**Willdan's role as the commissioning agent for the BTBC Phase II expansion** helped the University commission the HVAC systems, laboratory controls, normal and emergency power, lighting and lighting controls, domestic hot water systems, and a reverse osmosis water system

**Improved parking structure light quality and energy usage** was realized through Willdan's engineering design of more energy efficient LED lighting to replace the existing metal halide and high pressure sodium lighting

Willdan's work with KU has helped the University verify energy savings equivalent to the annual amount of carbon sequestered by over

**65,000+ trees**



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