

Case Study

July 2019



Kannapolis City Schools, NC

Guaranteed Energy Savings Performance Contract enabled this North Carolina public school system to employ over \$ 3,400,000 in facility upgrades across 11 schools and buildings with annual anticipated guaranteed savings of \$ 301,260 annually. This project will enter the construction phase in July 2019 and verification resulting a cumulative anticipated savings of \$ 5,419,898 annually.

Kannapolis, NC

Challenge

Kannapolis City Schools is experienced tremendous enrollment growth and was challenged with the need to build new schools, leaving limited budgets to address aging technologies across their existing school system buildings. Many of the aging schools were only able to receive upgrades under emergency replacement circumstances.

Solution

KCS chose to upgrade the 5 air cooled chillers in 11 district buildings, lighting systems in 26 buildings, and building automation systems in 26 facilities. The new building automation systems upgrades enable the school district to provide a more productive learning environment by better controlling classroom temperature and humidity and indoor air quality. The energy efficient lighting upgrades significantly improve lighting throughout classrooms in the district.

Results

The project upgrades represent a major step in transforming district facilities into high performance buildings that tie to its educational mission. High performance buildings take a whole building approach to performance while creating spaces that are reliable, safe, healthy, comfortable and efficient. Kannapolis City Schools will now be meeting specific standards for energy and water consumption, system reliability and uptime, environmental compliance and student and staff comfort while paying for these upgrades with Guaranteed Utility Savings.



Kannapolis City Schools (KCS) effectively used a GESP contract to provide critical facility improvements in lighting, water conservation, building controls, Chiller Plant replacements and an HVAC Laboratory upgrades \$301,260 in annual savings.

Project Dollar Amount

\$3,400,000

Source of Funds

Municipal Lease with Bank of America
18 Year Term at 2.782%

Guaranteed Annual Savings

\$301,260

Contract Dates

July 2019-July 2037

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