

# Case Study

June 2019



## Caldwell County Schools, NC

*Guaranteed Energy Savings Performance Contract enabled this North Carolina public school system to employ over \$6,420,000 in facility upgrades across 29 schools and buildings with annual anticipated guaranteed savings of \$ 501,983 annually. This project will enter the construction phase in June 2019 and verification resulting a cumulative anticipated savings of \$ 8,945,499 annually.*

*Lenoir, NC*

### Challenge

Caldwell County Schools (CCS) has many older schools and a very limited operation budget. They also only received a limited amount of funds from their county for existing facility upgrades aging technologies across their existing school system buildings. Many of the aging schools were only able to receive upgrades under emergency replacement circumstances.

### Solution

CCS chose to upgrade 18 air handlers at South and West Caldwell High Schools, LED lighting systems in 26 buildings, and building automation systems in several 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 LED 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. Caldwell County 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.



*Caldwell County Schools (CCS) effectively used a GESP contract to provide critical facility improvements in lighting, water conservation, building controls, and air handling unit upgrades in two high schools with expected annual savings of \$501,983 in annual savings.*

#### **Project Dollar Amount**

\$6,420,000

#### **Source of Funds**

Municipal Lease with Bank of America  
18 Year Term at 3.06%

#### **Guaranteed Annual Savings**

\$501,983

#### **Contract Dates**

June 2019-June 2037

#### **Customer Contact**

Dr. Jeff Church  
Associate Superintendent  
1914 Hickory Blvd.  
Lenoir, NC 28645

