

The Rockingham County School District was facing the challenge of aging facilities and systems. A Guaranteed Energy Savings Performance Contract including lighting and HVAC upgrades, water conservation, and enhanced indoor air quality breathed new life into Rockingham County Schools and provided the District significantly more control over its facilities.



Location and Information:	<ul style="list-style-type: none"> • 21 School Sites, 6 District Locations • 12K+ student population • 2,330,216 sq feet addressed as part of project
Construction Completion Year:	2021
Scope and Benefits:	<ul style="list-style-type: none"> • Improved indoor air quality <ul style="list-style-type: none"> ◦ HVAC deferred maintenance ◦ Installed a new chiller and replaced two Air Handler Units • LED lighting upgrades • Upgraded digital controls • Water conservation <ul style="list-style-type: none"> ◦ Upgraded plumbing fixtures ◦ Submetering for irrigation • Insulated chilled water piping (addressed deferred maintenance) • Streamlined internal operational processes
Financing/ Funding Information:	Project was fully funded from guaranteed energy savings and utility rebates.
Implementation Price (\$):	\$8.4M
Savings (\$):	<p>Guaranteed energy savings including O&M over project term: \$11,066,585</p> <p>Total Utility Savings: Over the first three years, cumulative utility savings (electric and water) were \$1,919,930, versus the projected savings of \$1,534,260 for the same term. During year three alone, the total verified savings exceeded the total guaranteed savings by over \$80,000.</p>
M&V Price (\$):	\$26,088 Year 1 M&V Price, escalating 3% each year
Term:	<p>Contract and M&V Term: 19 years</p> <p>IPMVP Method: Options A (some lighting, HVAC, water conservation) and B (some lighting)</p>
Owner's Rep:	Locklear, Locklear, and Jacobs
ESCO Partner:	Johnson Controls Inc.
Contact Information:	<p>Ms. Erselle Young, Assistant Superintendent of Operations and Logistics</p> <p>Rockingham County Schools</p> <p>Email: eyoung@rock12.nc.us</p>
Additional Information:	By renewing its infrastructure, the District provides more modern, comfortable and safe learning spaces, while also ensuring the ease of future maintenance through updated equipment.

ESC thanks Rockingham County School District and Johnson Controls, Inc. for sharing the above ESPC project information. The publication of this case study was supported through a Cooperative Agreement with the U.S. Department of Energy (DOE) under Award Number DE-SE0000349. Learn more about the U.S. DOE ESPC Campaign here: <https://www.energy.gov/scep/espc-campaign/home>.