



Facility type	County/K-12 bldgs
Project cost	\$7.9 million
Cost savings	\$597,292
Contract term	15 years
Contract type	ESPC

BEDFORD COUNTY & BEDFORD COUNTY PUBLIC SCHOOLS

Bedford, VA

By teaming together on a guaranteed energy savings contract, Bedford County and Bedford County Public Schools realize greater gains in energy and operational efficiency.

Bedford County is steeped in history, framed by central Virginia's Blue Ridge mountains and home to the national D-Day Memorial. However, local leaders also look to the future. In 2011, Bedford County (BC) and Bedford County Public Schools (BCPS) were seeking ways to improve building infrastructure and reduce operating cost .

Under the terms of a 15-year guaranteed energy performance-based contract, NORESKO helped BC/BCPS develop and implement a comprehensive energy plan, funded entirely by reductions in energy and water usage. The project delivered improvements across 20 schools and 3 county office buildings.

An analysis of available financial options demonstrated that BC/BCPS could achieve greater results by working in tandem, improving the organizations' buying power and jointly procuring services. As beneficiaries of the collaboration, three schools also received new windows, which would have otherwise required an outlay of school capital - and may not have occurred without the unified effort.

During construction, NORESKO met a critical timeline for installation of a new boiler system at Staunton River High School. Although BC/BCPS did not execute the contract until April 2012, NORESKO engineered, mobilized and installed the new system in time for October start-up.

NORESCO's guidance in contractual processes coupled with engineering expertise helped BC/BCPS leaders navigate their way to a better project for the county's citizens, employees, students, teachers and staff.

Technical Highlights

- ▶ Lighting retrofits & controls
- ▶ Rooftop unit replacements
- ▶ Water conservation measures
- ▶ Boiler plant renovation
- ▶ Building envelope improvements
- ▶ Energy management control system upgrades
- ▶ Direct digital controls
- ▶ Variable frequency drives & variable air volume boxes

Environmental Impact

- ▶ 4,464,466 kWh reduction in annual electricity consumption
- ▶ Conserves 2,274 kGal of water per year
- ▶ 8,108,934 lbs. reduction in CO₂
10,588 lbs. reduction in SO_x
25,793 lbs. reduction in NO_x
- ▶ Equivalent to removing 1338 cars from the road annually