



Project Highlight

Newport News Public Schools, VA



Holistic Building Upgrades Save
Newport News Public Schools
5,855,550 kWh of Energy Annually

Technology Type:

Building Envelope Improvements | Energy
Efficiency | Energy Management Systems |
HVAC | Lighting Systems and Controls |
Water Conservation

Facility Size

4.3M square feet
(50 buildings)

Energy Project Size

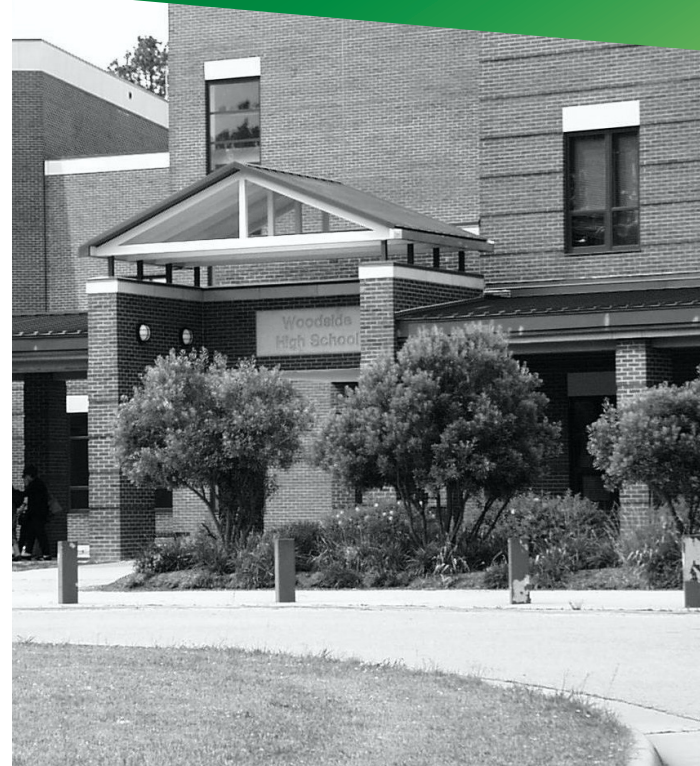
\$45,039,523 (3 phase project)

Annual Electricity Reduction

5.8M kWh (197,355 ccf natural gas; 1,677
gal oil; 14,142 Kgal water/sewer)

Annual Energy Savings

\$1,048,000 (phase 3)



Summary

Faced with critically deteriorated HVAC systems, Newport News Public Schools (NNPS) turned to Ameresco for a performance-based energy services contract. NNPS used the performance contract as a springboard for their commitment to responsible environmental stewardship district wide. To reduce energy consumption costs, Ameresco worked with NNPS to develop a plan that invested the energy cost savings in the funding of various infrastructure improvement projects.



Solution

- **Phase 1:** Renovation of Denbigh High School; and district wide measures such as lighting system improvements and controls, building envelope improvements, energy management systems, equipment/pipe insulation, waste oil heaters, and HVAC system replacement
- **Phase 2:** 85-mile fiber-optic installation of the entire District – 42 school and 13 city buildings to deliver high speed internet services and voice over internet telephone systems, enabling NNPS to conduct distance learning through live video streaming
- **Phase 3:** Included LED lighting district wide, HVAC renovation and replacement in two elementary schools, water conservation, controls upgrades throughout, chiller and on-demand hot water installations and bi-polar ionization for clean, fresh air

“Despite the large scope and extended period of execution (18 months) with occupied school buildings, Ameresco lived up to their promises of providing quality service and products with minimal disturbance to the on-going business of the school division. I would recommend Ameresco to other organizations interested in pursuing performance-based energy services contracts.”

Keith S. Webb
Executive Director, NNPS



Benefits

Through the life of the contract, NNPS is expected to save over \$1,000,000 annually in energy costs as a result of the work completed in phase 3. The infrastructure improvements demonstrate the Schools' ongoing commitment to environmental stewardship. As evidenced by Energy Star Designation, NNPS used the performance contract, not as an end unto itself, but as a springboard into numerous initiatives.

- Energy efficiency and operational cost savings
- Enhanced comfort for building occupants
- 4,500 metric tons of CO₂ offset annually
- U.S. EPA Energy Star Designations

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

