

Virginia Beach City Public Schools

Energy Performance Contracting

Ensuring students have a comfortable environment is critical to learning success. ABM helped Virginia Beach City Public Schools address its sustainability goals, cut costs, and improve operations without upfront costs.

Virginia Beach City Public Schools in Virginia Beach, VA, has an enrollment of more than 70,000 students.

CHALLENGE

Virginia Beach City Public Schools, the second largest school system in Virginia, wanted to reduce their carbon footprint and energy usage, while educating students about energy awareness and sustainability.

The school system also wanted to improve the indoor environmental quality, including comfort and lighting levels, and enhanced water conservation measures, resealed building envelopes to control airflow, without incurring upfront costs or increasing taxpayer burden.

SOLUTION

Virginia Beach City Public Schools selected ABM's customized solution to cut costs and mitigate risks associated with unexpected equipment failures, while improving student comfort, and creating a more comfortable, productive educational environment.

ABM implemented comprehensive infrastructure improvements through its Energy Performance Contracting Program to make energy and operational efficient upgrades at a dozen schools.

The customized solution is projected to save Virginia Beach City Public Schools more than \$9.7 million in energy and operating costs over a 15-year period.



As costs for K-12 schools continue to grow and funding continues to shrink, schools need ways to stretch budgets further. For almost a century, ABM has helped K-12 schools control costs, protect learning environments and put money back into needed improvements and educational priorities.

BENEFITS

ABM helped the school system make the operational changes to improve its facilities and learning environment and cut costs - without cutting into the school system's budget. Other benefits included:

- Provided a geothermal heating and cooling system to reduce energy consumption
- Installed and upgraded HVAC systems and state-of-the-art facility automation controls
- Retrofitted lighting systems with LED high-performance systems to control usage, as well as occupancy sensors, reducing energy usage by 30 percent
- Installed a solar and windmill turbine to convert kinetic and solar energy into mechanical power to generate clean, non-polluting electricity and reduce greenhouse gases
- Provided an EV charging station at Ocean Lakes High School to incorporate an electric vehicle into the Drivers Education Program
- Provided the Virginia Beach Technical and Career Education Center with a HVAC Troubleshooting Simulator
- Provided an Energy Education Dashboard to provide students with real time energy consumption data

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