

Case Study: The Waldorf School of Baltimore

Putting Energy Savings toward Education

The Waldorf School of Baltimore is an independent day school located on a scenic North Baltimore campus with several buildings built in the 1970s. As part of Sage Energy's mission to help educational institutions reduce costs and improve energy efficiencies, Sage Energy visited the Waldorf School of Baltimore to conduct a preliminary energy audit. During this assessment, Sage Energy identified several opportunities for the Waldorf School to implement energy conservation measures and save money.

While the operations staff was cognizant of energy efficiency, they needed expertise in determining just what the energy issues were and what measures could be implemented to maximize their savings. Sage Energy stepped in to assist. Sage Energy worked with the Waldorf School staff to thoroughly assess their current energy use. Sage Energy then provided actionable suggestions to optimize the school's energy use and promote energy conservation across the campus.

From analyzing the Waldorf School's energy bills and usage, to inspecting the existing conditions in the campus buildings, Sage Energy was able to make recommendations that included all areas of the physical plant and buildings.

Helping educational institutions reduce costs and achieve energy efficiency is paramount to our mission. Sage Energy provided the Waldorf School of Baltimore with several cost-effective energy saving measures that, when implemented, moved the school closer to their energy efficiency goals. Measures were both low-cost and more capital intensive. Some of these measures included:

- Controls systems modifications;
- Lighting modifications;
- Weatherization; and,
- Improvements to the boiler, chiller and HVAC systems.



Since the initial energy audit, the Waldorf School has achieved energy savings through the implementation of no-cost operational measures including executing controls system strategy modifications and replacing incandescents on burn-out with dimmable compact fluorescent lamps in recessed fixtures with dimming switches.

Further, they have plans to implement several of the physical plant recommendations including a new chiller for the expanded Tamarind building, upgrading the cooling tower basin, and replacing unit ventilators with a central ventilation system. These measures, when implemented, could produce operating budget savings as high as 20%. The Waldorf School is currently working to develop their capital improvements budget to incorporate the necessary and money-saving upgrades, and with Sage Energy's assistance they have been able to identify State and local grant and loan programs to help fund the measures.

Incorporating Sage Energy's expertise in creating innovative solutions for energy savings and efficiency into the Waldorf School's long-range sustainability plan has positively impacted both the school's operational efficiencies and their bottom line. Contact Sage Energy to find out how your school can benefit – 410.268.0511 or info@sage-energy.com.