

Asheville City Schools Energy Management Initiatives

Recent and Ongoing Energy Management Initiatives

- Replaced Asheville Middle School and Isaac Dickson Elementary School with two new highly energy efficient schools utilizing day lighting and other energy savings measures. Isaac Dickson uses geothermal wells to heat and cool its building while AMS uses solar energy to assist heating hot water in the cafeteria.
- Replaced four chillers over the past 5 years.
- Replaced two boilers over the past 5 years.
- As hot water heaters near the end of their life cycle, ACS has been replacing water heaters with gas tank less water heaters whenever possible.
- Replaced unit ventilators at Vance Elementary School.
- Replaced windows in the Main and ROTC buildings at Asheville High School.
- Replaced unit ventilators in the Main Building at Asheville High School.
- Used grant proceeds to install electronic ballasts and occupancy sensors throughout the system, as well as, retrofitting all lamps from F32 to F28 wattage.
- Used grant proceeds to replace metal halide lighting in the AHS gymnasium with T5 florescent lighting.
- Used grant proceeds to upgrade lighting in both the AHS upper student parking lot and the Hall Fletcher Elementary School parking lot to reduced wattage LED fixtures.
- Energy management systems are installed in all schools to monitor and control heating and cooling systems. The system attempts to maintain temperatures within a set point range during daytime occupancy hours and then lowers or increases the temperature, as appropriate, after regular occupancy hours.

Future Energy Management Initiatives

- Montford facility: replace exterior windows, replace chiller, replace unit ventilators and piping, replace/retrofit electric fuse panels.
- AHS facility: replace Cultural Arts and ROTC hot water service, replace Media Center chiller, replace CTE building chiller, replace CTE building boiler stack, replace CTE building windows, install insulated glass for Media Center, HVAC repairs and improvements,
- Replace chiller at the ACS Preschool building.
- Replace boiler at the Central Office.
- Replace window air conditioning units at the Central Office with a central air system.
- Replace single pane windows at the Central Office, Jones Elementary School and the ACS Preschool facility with energy efficient windows.
- Replace unit ventilators at Jones Elementary School.
- Replace walk-in cooler at Jones Elementary School.