

**Cincinnati Public Schools  
Taft High School - New \$17 Million  
LEED Platinum High School  
Cincinnati, Ohio  
Completion Date: 2011**



This new high school is nearly 101,000 SF and houses 600 students in grades 9 through 12. The school features information technology and science programs for high school students in Cincinnati. The school houses an academic core, as well as a media center, computer labs, music and art rooms, gymnasium, cafetorium with stage and provides a separate community entrance for after hours use. The building has numerous sustainable design features contributing to the high level of certification. Atop the building is one of the region's largest live vegetated green roofs. Energy-saving design features, including exterior sunshades and a high-efficiency "active chilled beam" HVAC system, substantially reduce the building's energy consumption. Recycled and regionally-obtained materials, and water-saving appliances and fixtures, were used throughout the project. Each classroom has independent temperature control and provides finite control of both temperature and humidity for the spaces. Plumbing fixtures were specifically selected to reduce water consumption by 45% through the use of low-flow water closets, urinals and showers. Central plant equipment includes high efficiency chillers, condensing boilers and variable speed control for all motors. The hot water piping system is a unique single-pipe distribution utilizing a cascading temperature gradient and variable volume circulators on all heating coils. Building system modeling achieved 36% reduction of annual energy consumption. Lighting systems feature an automatic control relay system to reduce lighting during based on space use. All classrooms include occupancy sensors and timed relay panels to turn lights off when unoccupied. Lighting systems feature an automatic control relay system to reduce lighting during based on space use. All classrooms include occupancy sensors and timed relay panels to turn lights off when unoccupied.

**Dynamix Engineering's Role on the Project:**

- Full-Service Engineering Including Mechanical, Electrical, Plumbing and Technology Engineering
- Construction Administration



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