

NEW HIGH SCHOOL HENRICO COUNTY, VIRGINIA

Henrico County Public Schools Seeks Silver



*Size: 255,000 SF
Budget: \$62.5 M
Completion: 2010*

The new two-story high school for Henrico County Public Schools will accommodate approximately 1,800 students and 200 staff. Because Henrico County Public Schools has established the goal of Leadership in Energy and Environmental Design (LEED®) Silver certification for all new schools, the following strategies are being implemented into this project's design to meet this goal.

- The daylight flooded building is modeled to require 21 percent less energy than code with efficient HVAC, insulation, glazing, and an air barrier system.
- The facility is being sensitively sited around existing wetlands.
- Over 60 percent of the site will be preserved as open space and used for instructional purposes.
- A 50,000-gallon cistern will collect and recycle stormwater for flushing.
- Low-flow plumbing fixtures will reduce water use by 60 percent.
- A high-efficiency irrigation system is expected to maintain athletic fields with less than half the normal water usage.
- Enhanced commissioning of the building energy systems will ensure functional integrity.
- At least 50 percent of construction waste will be diverted from landfills.
- Building materials will contain at least 10 percent recycled content and 10 percent regionally extracted, processed, or manufactured materials
- High efficiency lighting and thermal systems offer occupant controllability.
- The Indoor air quality will be improved through the use of low-emitting materials such as paints, adhesives, flooring, and furniture.