

**NEW ELEMENTARY SCHOOL ON KEITHSHIRE WAY
FAYETTE COUNTY PUBLIC SCHOOLS, LEXINGTON, KENTUCKY**



School Information

- ❖ New Construction
- ❖ 650 Student Elementary School
- ❖ 75,994 square feet
- ❖ Energy Use Intensity (EUI) = 142 kBtu/sf/yr
- ❖ Percent CO2 reduction = 34%
- ❖ ENERGY STAR design rating = 90

Annual Savings Statistics

- ❖ Energy savings = 5,600,000 kBtu
- ❖ CO2 savings = 340 Metric Tons CO2

Sustainable Features

- ❖ Designed to earn the Energy Star
- ❖ Designed to meet LEED Gold standard
- ❖ Building oriented for maximum daylighting
- ❖ Rain garden/outdoor classroom
- ❖ Permeable pavers
- ❖ Rainwater reuse system
- ❖ Life cycle cost analysis
- ❖ Insulated concrete form wall R-22
- ❖ Roof insulation R-20
- ❖ Multiple daylighting strategies
- ❖ SolaTubes
- ❖ Interior light shelves
- ❖ High efficiency glazing
- ❖ Regional, Recycled, No- and Low- VOC materials

- ❖ Vital Signs Building Monitoring
- ❖ Solar hot water
- ❖ Photovoltaic electric
- ❖ Daylight harvesting controls
- ❖ Energy recovery
- ❖ Automatic light sensors
- ❖ Low flow plumbing fixtures
- ❖ CO2 monitoring
- ❖ High efficiency VRF HVAC system
- ❖ Construction waste recycling
- ❖ Durable, long-lasting materials
- ❖ Designated recycling areas
- ❖ Reflective roof materials
- ❖ Native landscaping



DESIGNED TO EARN THE ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.