

# Shelby Secondary Center

## Shelby County, Kentucky

When it came time to build a new high school, Shelby County leaders knew exactly what they wanted: A green and healthy school that is good for students, the environment, and the district's pocketbook. That decision was the one that drove all others and kept project leaders focused on the end result: an Energy Star school.

Energy Use Intensity (EUI):	105 kBtu/sf/yr
Percent CO <sub>2</sub> reduction:	33 %
ENERGY STAR design rating:	86
Energy Savings:	11,620,000 kBtu
CO <sub>2</sub> Savings:	703 Metric Tons CO <sub>2</sub>
Space type:	High School
Total Square Footage:	225,000 SF
Energy Cost/SF:	\$0.47/SF

### High Performance Features:

- High performance insulated concrete form building envelope.
- Heat reflective roofing with R-30 roof insulation.
- Energy efficient insulated windows.
- Heat reflective metal panels.
- North/South classroom orientation.
- Daylighting clerestory with light shelves.
- Daylight in 95% of instructional spaces.
- Geothermal HVAC with hot water generation.
- Rain garden entrance courtyard.
- Bio-swale stormwater system.
- Occupancy, motion, and CO<sub>2</sub> sensors.
- ENERGY STAR® rated kitchen equipment.
- Elimination of Type I kitchen exhaust hood.
- Operation and maintenance plan.
- Building functions as a teaching tool.

