

Hazard Community & Technical College *HCTC – Smart Building Program*

Owner: Kentucky Finance Cabinet - DECA
User Agency: KCTCS
Contact: Carroll McGill
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Building Area: 1,250 s.f.
Construction Cost: \$130,000
Project Status: Completed

Project Description:

The Smart Building Program is a “Trainer” house built for teaching students how to design and build energy efficient systems in residential construction.



Engineering Highlights:

Electrical / Systems:

Trainer house received a main electric panel serviced from cover building bus duct. Secondary electrical circuits and lighting will be installed and removed as part of the educational program. Project also consists of having alternative power options available. Solar panels are mounted on moveable mounts within same cover building for program access.

HVAC:

Trainer house was set up to receive different types of HVAC equipment as the program identified. A simulated geothermal system is available to help teach about the most efficient HVAC system in the industry today.

