

# PROJECT FACTS

UNIVERSITY OF KENTUCKY CENTER FOR APPLIED ENERGY RESEARCH

## PARTICIPANTS

Murphy + Graves  
Architects

CMTA Consulting  
Engineers

## SPONSORS

National Institute of  
Standards and Technology  
under the American  
Reinvestment and  
Recovery Act's (ARRA)  
NIST Construction Grant.  
\$11.8 million

Commonwealth of KY  
\$3.5 million

State Energy Plan (ARRA  
Funds) Dept. of Energy  
Development &  
Independence  
\$3.5 million

University of Kentucky  
\$1 million

## CONTACTS

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## High-Performance Laboratory Building

CAER is constructing a new 43,000 square foot high-performance laboratory building that will allow us to expand our renewable and energy storage research. By utilizing state of the art laboratory designs we are aiming for LEED Gold certification and we are on schedule for completion in early 2012.

Items to note about the new laboratory building:

- Geothermal heating & cooling
- Three energy recovery wheels to recapture energy contained in hood exhaust air
- Continuous closed-loop plumbing system for lab water; domestic hot water in restrooms heated by solar panels on the roof.
- Exterior walls & roof with twice the amount of insulation normally used
- Offices located on south side, to benefit from daylight
- Occupancy sensors used throughout to turn off lights when space is not used.
- Energy dashboard monitors in lobby showing research activities within and energy use and savings.

