

Establishing a Green Home Technology Center: An OSU and Community Partnership for Research, Education, and Demonstration of Green Building Technologies to Support Healthy, Energy Efficient, and Sustainable Housing in Ohio

Purpose

Reducing energy consumption and the associated environmental impact is a significant challenge we are facing. New green technologies that reduce home energy consumption and improve indoor environmental quality will provide a tremendous opportunity to reduce financial burdens on households, mitigate climate change, and increase the nation's energy security. The goal of this project is to establish a Green Home Technology Center (GHTC) through partnerships with homeowners, builders, and professionals, and to demonstrate and disseminate effective green home technologies for a transformational change in residential energy consumption and environment impact.



OSU 2011 solar decathlon house

Impact

The expected outcomes of the project are:

- (1) OSU and community partnerships in research, education, and Extension on green home technologies.
- (2) A Green Home Technology Center (GHTC).
- (3) Workshops on green home technologies.

The expected impacts will be increased adoption of green home technologies, reduced home energy consumption and cost, improved indoor air quality, reduced climate change environmental impact, and improved healthy and comfortable living of Ohioans.

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Ohio State Colleges/Units Involved

Office of Energy and Environment
Department of Food, Agricultural,
and Biological Engineering
College of Food, Agricultural, and
Environmental Sciences
College of Engineering
OSU Extension
Department of Mechanical and
Aerospace Engineering
Knowlton School of Architecture

Community Partners Involved

New Albany High School
The USGBC Central Ohio Chapter
Efficiency Smart - American
Municipal Power, Inc.
Buckeye Power, Inc.
Ohio Energy Office
Habitat for Humanity MidOhio



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