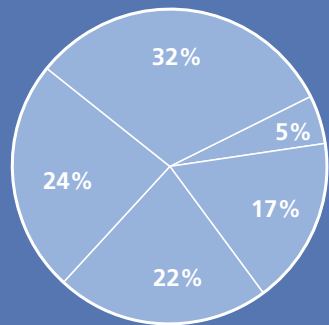


Universities Consume Energy Like Mini-Cities

Universities and colleges are actually office buildings, restaurants, retail shops, multi-family dwellings, sports facilities, entertainment complexes, and schools rolled into one. Today, these mini-cities face severe budgetary challenges as they strive to operate, update, and replace aging, inefficient buildings. Enrollment is rising along with energy costs and student demand for energy-intensive amenities like air conditioning, high-speed Internet connections, advanced telecommunication systems, and health club facilities.

ENERGY USE IN UNIVERSITIES



Space Heating—32%
Water Heating—24%
Lighting—22%
Space Cooling—5%
Other—17%

MIDWEST UNIVERSITIES AND COLLEGES

Energy Efficient Building Technologies and Building Practices

Opportunities to Manage Energy Consumption

Universities and colleges are realizing that energy management is a key to reducing operating costs and improving the campus environment. New campus designs and renovations are employing sustainable energy design and operation approaches, including implementing energy efficiency and renewable energy technologies. These concepts are being integrated with innovative environmental, water, and transportation solutions to optimize cost savings and environmental benefits.

The Midwest Buildings Technology Application Center (MBTAC) has launched an outreach initiative in 2007 targeting the implementation of energy efficient building technologies and better building practices within universities and colleges in the Midwest. The initiative's focus begins with a series of workshops that will bring industry experts to the universities and colleges via interactive Internet-Teleconference webinars. The webinars will be approximately two hours in length and will cover such topics as:

- Sustainable Energy Design
- Geothermal Heat Pumps
- Energy Efficient Lighting Applications
- Combined Heat and Power, When Does it Make Sense?
- Purchasing Options for Electricity and Natural Gas
- Funding Energy Projects
- Renewable Energy Applications
- Commissioning
- Advanced HVAC Technology



The atrium at Oberlin College's Adam Joseph Lewis Center for Environmental Studies uses daylighting to significantly reduce the electrical loads of the building.

PHOTO BY RON JUDKOFF, COURTESY DOE/NREL



FOR MORE INFORMATION Midwest Buildings Technology Application Center located at: Energy Resources Center, University of Illinois at Chicago, 1309 S. Halsted Street (MC 156), Chicago, Illinois 60607
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