

ENERGY STAR Building Design Profile

Alice Lloyd Residence Hall
Ann Arbor, MI 48109



Alice Lloyd Hall is an approximately 176,000-gross-square-foot residence hall housing over 500 students. The renovation repaired and updated infrastructure, including: new plumbing, heating, ventilation, fire detection and suppression systems, wired and wireless high-speed network access, renovated bath facilities and accessibility improvements. In addition, air conditioning was provided throughout the renovated building. New community and program spaces were created in the dining areas that became vacant with the opening of the Hill Dining Center in the fall of 2008. New and reorganized spaces within the facility revitalize the old residence hall and create spaces for living-learning and academic initiatives, student interaction, and creation of community. The energy performance of the overall building has been brought up to University of Michigan's current design guidelines by a number of energy efficiency measures and is designed to earn the ENERGY STAR.

Sustainable Design Features:

- * Improved building envelope insulation
- * Water conservation measures including low flow fixtures
- * Improved lighting control including motion sensing technology
- * Daylighting techniques
- * Heating and cooling improvements
- * Regional, recycled, low VOC materials
- * Construction waste recycling and management
- * CO₂ monitoring and control
- * Energy use monitoring, trending and verification



Architect of Record:

Integrated Design Solutions, LLC

Engineering Firm:

N/A

Building Owner:

The University of Michigan

Design Energy Rating:

81

Percent Energy and CO₂ Reduction*:

36

Design Year/ Estimated Occupancy Date:

2012

Space Type:

Residence Hall/Dormitory

Floor Space:

176,318 sq ft

Estimated Energy Use Intensity:

136 kBtu/sf/yr

Estimated Total Annual Energy Use:

9,878,299 kBtu/yr

Estimated Annual Energy Cost:

\$234,760

Technologies Specified:

Advanced Siemens BAS system
Energy efficient HVAC systems
Lighting/HVAC occupancy sensors
Toilet room exhaust energy recovery

For More Information

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*Percent Energy and CO₂ Reductions are based on comparison to a median building of similar type.

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