



Fact Sheet about Macalester College Energy Efficiency Leader in Education Award
 -- Macalester College a National Leader in Addressing Climate Change --

<p>What's Happening</p>	<p>Macalester College in St. Paul, Minn., is a leader among American colleges and universities in addressing climate change. The college expanded its efforts last year by formally committing to rapidly reducing their carbon footprint and to becoming both zero waste by 2020 and carbon neutral by 2025. Last year, the college completed a strategic, long-term, comprehensive sustainability plan to achieve these goals, demonstrating their commitment to living their values and helping each generation confront the challenges they will face in the years ahead. Because of their ongoing commitment to energy efficiency, leaders at Macalester College will receive the Trane "Energy Efficiency Leader in Education Award" on April 22, 2010. The Energy Efficiency Leader in Education Award honors a school for optimizing its academic environment while substantially improving energy efficiency.</p>
<p>About Macalester College</p>	<p>Macalester College, founded in 1874, is a national liberal arts college with a full-time enrollment of 1,958 students. Macalester is nationally recognized for its long-standing commitment to academic excellence, internationalism, multiculturalism and civic engagement.</p>
<p>Sustainability Commitment</p>	<p>In September 2009, Macalester College completed its first long-term strategic plan to combat climate change. Among the college's goals:</p> <ul style="list-style-type: none"> • Eliminating waste by 2020 (zero waste) • Achieving carbon neutrality by 2025 • Integrating sustainability into curriculum and student programs • Adopting a "green building" policy to reduce emissions in facility construction and operations • Decreasing carbon emissions from travel • Adopting a responsible purchasing policy <p>For the past three decades, Macalester has proactively implemented numerous sustainability practices. The plan takes the next step by setting specific and measurable goals for sustainability that touch every part of the institution. Created during a year-long, campus-wide process led by the college's Office of Sustainability, the plan reflects Macalester's commitment to addressing climate change.</p> <p>Last fall, Markim Hall, home of the Institute for Global Citizenship (IGC) at Macalester College, received LEED (Leadership in Energy and Environmental Design) Platinum certification from the U.S. Green Building Council. Markim Hall is the first higher education facility in Minnesota to earn LEED Platinum, the highest level of certification. LEED certification independently verifies that a building project meets the highest green building and performance measures.</p> <p>Established in 2005, the Institute for Global Citizenship is a campus-wide initiative to expand the college's distinctive tradition of engagement and academic excellence. The IGC promotes learning, scholarship, civic engagement and global leadership locally, nationally and internationally.</p>

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Markim Hall, continued	<p>The \$7.5 million, 17,000-square-foot facility includes IGC programs, faculty and staff offices, meeting rooms and an atrium for campus events. An original bronze bust of 1961 alumnus, former Secretary-General of the United Nations Kofi Annan, a gift of the United Nations Foundation, is installed in the lobby. Generous donors funded the entire building project.</p> <p>Markim Hall's sustainability features address energy and water use, indoor air quality, materials used in construction and in furnishings, native landscaping, innovative storm water management and public education. Energy simulation models predict that Markim Hall will use nearly 80 percent less energy than a standard building in an equivalent climate. Macalester is also purchasing renewable energy credits and carbon offsets to cover all of Markim Hall's heating, cooling and electricity consumption. Markim Hall was incorporated into the existing campus building automation system which provides highly efficient building control through a centralized access point that can be managed remotely. Real-time data and sustainability information about Markim Hall is available on the green touchscreen monitor in the lobby and online at http://igc.macalester.greentouchscreen.com/</p> <p>Bruner/Cott & Associates, Inc. of Cambridge, Mass. was the architect, and McGough Companies of St. Paul, Minn. constructed the building.</p> <p>For high-resolution photos of Markim Hall, go to: macalester.edu/igc/markimhall/photoalbum/</p>
EcoHouse	<p>Macalester College also offers students a green living experience on campus through its Project EcoHouse residence. Each year, students living in EcoHouse explore green living lifestyles, test the effectiveness of new green technologies and work with community partners to develop better resources and sustainable lifestyles. The renovated 1950s-era house includes a solar hot water system, a recyclable steel roof and high-efficiency Energy Star appliances. Trane donated the building automation system for the house, which includes a Web interface that allows the students to track and analyze their energy use.</p>
Chilled Water System Plant	<p>In 2009, Macalester College installed a new central chilled water plant, which includes three high-efficiency 800-ton Trane CenTraVac™ centrifugal chillers that serve the cooling requirements of the entire campus. The new systems replaced previous equipment, which included three older chillers as well as an ice storage system. Because of the increased capabilities and efficiencies of the new chillers, the ice storage system is no longer necessary. The new chilled water plant controls were incorporated into the existing building automation system. This allows the entire plant to operate at maximum efficiency and to meet all campus cooling requirements. A Trane Tracer Summit™ building automation system was incorporated into the existing building automation system to extend its capabilities and to allow for remote operation of the chilled water plant.</p>

About Trane

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