



The
HVAC&R Industry
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Advancing HVAC&R To Serve Humanity
And Promote a Sustainable World

The HVAC&R Industry, ASHRAE's free weekly eNewsletter for HVAC&R professionals, provides relevant, timely information about industry and technology for people who create healthy, comfortable indoor environments.

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Industry News

LEED® Loses Money for USGBC; Greenbuild Big Moneymaker

WASHINGTON—The U.S. Green Building Council (USGBC) loses money on the Leadership in Energy and Environmental Design (LEED®) certification program, according to a recent news article. In 2006, the nonprofit USGBC spent \$5.3 million running LEED, but federal tax statements show LEED certifications brought in only \$1.35 million. However, USGBC's shortfall on LEED is more than offset with revenue from programs that developed around the certification program. USGBC's biggest revenue producer is its annual Greenbuild International Conference and Expo. The event generated \$9.7 million in revenue in 2006 and is growing, said Jerry Yudelson, chairman of the Greenbuild organizing committee.

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First U.S. Auction of CO₂ Allowances Raises \$38.5 Million

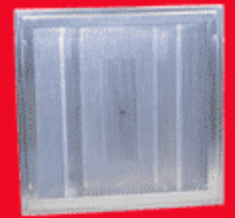
NEW YORK—The Regional Greenhouse Gas Initiative (RGGI) recently conducted the first auction of carbon dioxide emission allowances in the U.S. More than \$38.5 million was raised from the sale of 12.5 million allowances to bidders from the energy, financial, and environmental sectors. Demand for the allowances exceeded the available amount by more than four times. Six of the 10 East Coast states that comprise the RGGI offered allowances for sale in the auction.

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Thieves Stealing and Selling Solar Panels

DESERT HOT SPRINGS, Calif.—Police departments in California—the biggest U.S. market for solar power—are reporting a rash of burglaries of solar panels. Authorities believe that many panels are being resold to unwitting homeowners, sometimes via the Internet. In one case, a Santa Monica resident was arrested for attempting to sell stolen solar panels for \$100 apiece on the eBay auction site. His lawyer said the man bought the panels—not knowing they were stolen—from another seller on Craigslist.

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[DOE Program To Create Energy-Efficient Prototypes](#)

WASHINGTON—The U.S. Department of Energy (DOE) has selected 21 companies to receive \$15 million in technical assistance as the first phase of awards for its Net-Zero Energy Commercial Building Initiative. DOE will work with each awardee to design, build, commission, and operate at least one new energy-efficient prototype building. The proposed designs of the buildings are intended to exceed ANSI/ASHRAE/IESNA Standard 90.1 requirements by 50%.

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[Microsoft's 'Greenest' Data Center Goes Online](#)

SAN ANTONIO—Microsoft has opened a \$550 million, 477,000 ft² (44 000 m²) data center in San Antonio. The new data center uses several strategies to make it more manageable, scalable, and energy efficient. Sensors track information including temperature, CPU use, and humidity and report back to Microsoft's proprietary data center management tool. The facility also receives a large supply of nuclear and wind energy and recycles water. "The San Antonio facility is the most power-efficient data center we've ever built," said Mike Manos, Microsoft's general manager of data center services.

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[ASHRAE News](#)

[2009 Winter Conference Focuses on Sustainable Urban Design](#)

Chicago will be the site of the 2009 ASHRAE Winter Conference, which has as its theme *Sustainable Urban Design: Engineering Tomorrow... Today*. The ASHRAE Conference takes place Jan. 24–28 at the Palmer House Hilton. Held in conjunction with the meeting is the ASHRAE cosponsored AHR Expo, Jan. 26–28 at McCormick Place. Meeting highlights include availability of more than 200 professional development hour (PDH) credits through the technical program. Also, ASHRAE is launching "Wednesday Welcome," at which all ASHRAE program sessions on Jan. 28 will take place at McCormick Place. Hands-on, applications-type programs are offered in the morning, leaving the afternoon open to tour the Expo.

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[Feature of the Week](#)

[Ventilation Heat Recovery for Laboratories](#)

By Otto VanGeet, P.E., and Sue Reilly, P.E.

According to the authors, laboratories typically require 100% outside air at high ventilation rates primarily for safety reasons. The heating and cooling energy needed to condition this air, as well as the fan energy needed to move it, often is five times greater than the amount of energy used in most offices for these same purposes. The article focuses on one approach: air-to-air energy recovery using enthalpy wheels, heat pipes, or runaround loops in new construction.

This article was originally published in March 2006. [Click here](#) to download the article. It will be available here through Oct 15.

After Oct. 15, access to the article from this eNewsletter will no longer be available. It will remain available for free download by Members [here](#) and for purchase by nonmembers in the [ashrae.org bookstore](#).

Product News

Variable-Speed Scroll Compressors From Danfoss

BALTIMORE—Danfoss offers the Apexx™ VSH line of variable-speed scroll compressors for commercial cooling applications and heat pumps from 12 tons to 40 tons (42 kW to 140 kW). The compressor is designed to maintain high isentropic efficiency at part load and continuously matches the load with capacity output, so it does not inefficiently deliver excess capacity.

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Performance Calculation Software From Wrightsoft

LEXINGTON, Mass.—Wrightsoft introduces the Right-SolarDHW software module. The software calculates the performance and operating cost savings of solar domestic hot water heating systems. The software enables users to produce operating cost comparisons, including applicable statewide or federal tax benefits and incentives.

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BACnet® Wireless Thermostat From Cypress EnviroSystems

SAN JOSE, Calif.—Cypress EnviroSystems introduces the Wireless Pneumatic Thermostat (WPT). It enables DDC-like functionality with automatic zone-by-zone scheduling of temperature setpoint changes, automatic calibration, and remote monitoring of temperature and pressure. The device features a BACnet® interface for integration with building management systems.

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